SHARP

SERVICE MANUAL/SERVICE-ANLEITUNG/MANUEL DE SERVICE

S3639SYSW7HBK

SYSTEM-W7H(BK)

- The service manual of the compact disc player of the SYSTEM-W7H is separately issued. When servicing the other sections of the SYSTEM-W7H, refer to the Service Manual (S2626DX-7HBK/) of the DX-7H(BK).
- Die Service-Anleitung des CD-Spielers des SYSTEM-W7H wird gesondert ausgeliefert. Für die Wartung der anderen Bausteine des SYSTEM-W7H wird auf die Service-Anleitung (S2626DX-7HBK/) des DX-7H(BK) vorwieson.
- Le manuel do service pour le lecteur de disque compact de SYSTEM—W7H est publié séparément. Pour la réparation des autres parties de SYSTEM-W7H, se reporter au Manuel de service (S2626DX-7HBK/) du DX-7H(BK).

DOLBY SYSTEM ®

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- Geräuschunterdrückungssystem unter Lizenz von Dolby Laboratories Licensing Corporaton hergestellt. Das Wort "Dolby" und das Symbol des doppelten D sind die Warenzeichen von Dolby Laboratories Licensing Corporation.
- Réducteur de bruits Dolby: Circuit fabriqué sous licence des Dolby Laboratories Licensing Corporation. Le mot "Dolby" et le symbole double D sont des marques déposées des Dolby Laboratories Licensing Corporation.

- In the interests of user-safety the set should be restored to its original condition and only parts identical to those specified be used.
- Im Interesse der Benutzer-Sicherheit sollte dieses Gerät wieder auf seinen ursprünglichen Zustand eingestellt und nur die vorgeschriebenen Teile verwendet werden.
- Dans l'intérêt de la sécurité de l'utilisateur, l'appareil devra être reconstitué dans sa condition première et seules des pièces identiques à celles spécifiées, doivent être utilisées.

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SHARP CORPORATION

Ⓔ

FOR A COMPLETE DESCRIPTION OF THE OPERATION OF THIS UNIT, PLEASE REFER TO THE OPERATION MANUAL.

SPECIFICATIONS

GENERAL

Power source, main unit:	220 V, 50/60 Hz
Power consumption, main unit:	270 W
Dimensions:	Width; 460 mm (18-3/32")
	Height; 890 mm (35-1/32")
	Depth; 415 mm (16-11/32")
Weight:	33.5 kg (73.9 lbs.) (with compact disc player)

STEREO TUNER SECTION

Frequency range:	FM; 87.6 MHz–108 MHz
	MW; 526.5 kHz–1606.5 kHz
	LW; 150 kHz–285 kHz
Usable sensitivity (mono):	FM; 3.2 μV (40 kHz deviation, S/N 26 dB)
	MW; 500 μV/m (with bar antenna)
	LW; 500 μV/m (with bar antenna)

STEREO AMPLIFIER SECTION

Music power output:	2 x 80 W/8 ohms (DIN 45 324)
Continuous power output:	2 x 40 W/8 ohms (DIN 45 324)
Input sensitivity and impedance:	CD/AUX; 350mV/ 22 kohms
Loaded impedance:	Speakers; 8 – 16 ohms
	Headphones; 8–25 ohms

STEREO CASSETTE DECK SECTION

Tape:	Compact cassette tape
Bias and erasure system:	AC 85 kHz
Tape speed:	4.76 cm/sec.
Frequency response:	Normal tape; 40 Hz – 13000 Hz
	CrO_2 tape; 40 Hz – 15000 Hz
S/N ratio (CrO_2 tape):	Dolby NR off; 52 dB
	Dolby NR effect; 10 dB (at over 5 kHz)

STEREO TURNTABLE SECTION

Type:	Belt drive, semi automatic
Speed:	33-1/3 and 45 rpm
Motor:	DC motor
Tonearm:	Statically balanced
Cartridge:	Magnetic type
Replacement stylus:	DN239

SPEAKER SECTION

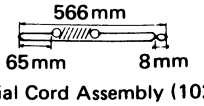
Speaker:	14.5 cm Woofer
	6.0 cm Midrange
	3.5 cm Tweeter
Frequency range:	40 Hz – 22 kHz
Impedance:	8 ohms
Music power:	80 watts
Dimensions:	Width; 235 mm (9-1/4")
	Height; 495 mm (19-1/2")
	Depth; 230 mm (9")
Weight:	5.2 kg (11.5 lbs)/Each

Specifications for this model are subject to change without prior notice.

STRINGING OF DIAL CORD

1. Turn the drum fully in the direction Ⓐ shown in Fig. 2–1 and stretch its cord over the parts in the numerical order.
2. Then turn the tuning control shaft fully in the direction Ⓑ shown in Fig. 2–1 and fix its pointer as shown in Fig. 2–1.

* Set the drum as shown in Fig. 2–1 by turning the tuning shaft fully in the direction Ⓒ .



Dial Cord Assembly (102)

Figure 2–2

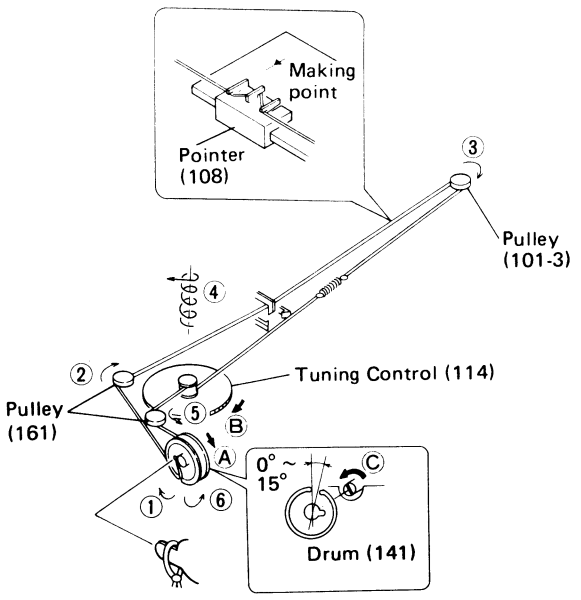


Figure 2–1

Ⓓ

EINE VOLLSTÄNDIGE BESCHREIBUNG DER BEDIENUNG DIESES GERÄTES IST IN DER BEDIENUNGSANLEITUNG ENTHALTEN.

TECHNISCHE DATEN

ALLGEMEINE DATEN

Spannungsversorgung		
Hauptgeät:	220 V, 50/60 Hz	
Leistungsaufnahme		
Hauptgerät:	270 W	
Abmessungen:	Breite;	460 mm
	Höhe;	890 mm
	Tiefe;	415 mm
Gewicht:	33,5 kg (Mit Compact Disc Spieler)	

STEREO-TUNER-TEIL

Frequenzbereiche:	UKW;	87,6 – 108 MHz
	MW;	526,5 – 1606,5 kHz
	LW;	150 – 285 kHz
Nutzempfindlichkeit (Mono):	UKW;	3,2 μV (40 kHz Hub, Rauschabstand 26 dB)
	MW;	500 μV/m (mit Stabantenne)
	LW;	500 μV/m (mit Stabantenne)

STEREO-VERSTÄRKER-TEIL

Musikleistung:	2 x 80 W/8 Ohm (DIN 45 324)
Dauerleistung:	2 x 40 W/8 Ohm (DIN 45 324)
Eingangsempfindlichkeit und -impedanz:	CD/AUX; 350 mV/22 kOhm
Belastungsimpedanz:	Lautsprecher; 8 – 16 Ohm Kopfhörer; 8 – 25 Ohm

STEREO-CASSETTENDECK-TEIL

Band:	Kompaktcassettenband
Vormagnetisierungs- und Löschsystem:	Wechselstrom, 85 kHz
Bandgeschwindigkeit:	4,76 cm/s
Frequenzgang:	Normalband; 40 – 13000 Hz CrO_2-Band; 40 – 15000 Hz
Rauschabstand (CrO_2-Band):	Dolby-NR ausgeschaltet; 52 dB Dolby -NR-Effekt; 10 dB (bei über 5 kHz)

STEREO-PLATTENSPIELER-TEIL

Typ:	Riemenantrieb, halbautomatische Abschaltung
Drehzahlen:	33-1/3 und 45 U/min
Motor:	Gleichstrommotor
Tonarm:	Gewichtsbalanciert
Tonabnehmersystem:	Magnetische Ausführung
Ersatznadel:	DN239

LAUTSPRECHER-TEIL

Lautsprecher:	14,5 cm – Tieftöner 6,0 cm – Mittelton 3,5 cm – Hechtöner	
Frequenzbereich:	40 Hz – 22 kHz	
Impedanz:	8 Ohm	
Musikleistung:	80 Watt	
Abmessungen:	Breite;	235 mm
	Höhe;	495 mm
	Tiefe;	230 mm
Gewicht:	5,2 kg/je	

Die technischen Daten für dieses Modell können ohne vorherige Ankündigung Änderungen unterworfen sein.

SPANNEN DER SKALENSCHNUR

1. Die Trommel gemäß Abb. 2–1 bis zum Anschlag in Richtung Ⓐ drehen, dann die Schnur in der numerischen Reihenfolge über die einzelnen Teile spannen.
2. Die Abstimmstellerachse gemäß Abb. 2–1 bis zum Anschlag in Richtung Ⓑ drehen, dann den Zeiger gemäß Abb. 2–1 befestigen.

* Die Trommel durch Drehen der Abstimmachse ganz in die Richtung Ⓒ, wie in Abb. 2–1 gezeigt, einstellen.

Ⓕ

POUR LA DESCRIPTION COMPLÈTE DU FONCTIONNEMENT DE CET APPAREIL, SE REPORTER AU MODE D'EMPLOI.

CARACTÉRISTIQUES

GÉNÉRALITÉS

Alimentation appareil principal:	220 V, 50/60 Hz	
Consommation appareil principal:	270 W	
Dimensions:	Largeur;	460 mm
	Hauteur;	890 mm
	Profondeur;	415 mm
Poids:	33,5 kg (avec le lecteur de disque compact)	

TUNER STÉRÉO

Gamme de fréquences:	FM;	87,6 à 108 MHz
	PO;	526,5 à 1606,5 kHz
	GO,	150 à 285 kHz
Sensibilité utilisable (mono):	FM;	3,2 μV (déviation de 40 kHz, S/B 26 dB)
	PO;	500 μV/m (avec antenne à barre)
	GO;	500 μV/m (avec antenne à barre)

AMPLIFICATEUR STÉRÉO

Sortie de puissance musicale:	2 x 80 W/8 ohms (DIN 45 324)
Sortie de puissance continue:	2 x 40 W/8 ohms (DIN 45 324)
Sensibilité et impédance d'entrée:	CD/AUX; 350 mV/22 koms
Impédance chargée:	Enceintes; 8 à 16 ohms Casque; 8 à 25 ohms

PLATINE À CASSETTE STÉRÉO

Bande:	Bande cassette compacte
Système de polarisation et d'effacement:	CA 85 kHz
Vitesse de défilement:	4,76 cm/s
Réponse en fréquence:	Bande normale; 40 à 13000 Hz Bande CrO_2; 40 à 15000 Hz
Rapport S/B (Bande CrO_2):	Sans Dolby NR; 52 dB Effect Dolby NR; 10 dB (à plus de 5 kHz)

TOURNE-DISQUE STÉRÉO

Type:	Entraînement par courroie, semi-automatique
Vitesse:	33-1/3 et 45 t/mn
Moteur:	Moteur CC
Bras:	À équilibrage statique
Cellule:	Type magnétique
Aiguille de remplacement:	DN239

ENCEINTES

Haut-parleurs:	Woofer de 14,5 cm Médium de 6,0 cm Tweeter de 3,5 cm	
Gamme de fréquences:	40 Hz à 22 kHz	
Impédance:	8 ohms	
Puissance de musicale:	80 watts	
Dimensions:	Largeur;	235 mm
	Hauteur;	495 mm
	Profondeur;	230 mm
Poids:	5,2 kg/chacun	

Les caractéristiques de ce modèle sont sujettes à modification sans préavis.

PASSAGE DU CORDON DU CADRAN

1. Tourner le tambour entièrement dans le sens Ⓐ montré sur la Fig. 2–1 et passer le cordon sur les organes indiqués et dans l'ordre numérique.
2. Tourner l'abre de commande d'accord entièrement dans le sens Ⓑ montré sur la Fig. 2–1 et fixer son index comme le montre la Fig. 2–1.

* Mettre le tambour en place en tournant l'arbre d'accord entièrement dans la direction Ⓒ. Voir Fig. 2–1.

(E) NAMES OF PARTS

1. 17 cm (7") EP Record Adaptor
2. Turntable Platter and Mat
3. Cue Lever
4. Speed Selector Switch
5. Tonearm Rest
6. Tonearm
7. Headshell
8. FM Stereo Indicator
9. FM Mode Switch
10. Tuning Control
11. Band Selector Switch
12. Power Indicator
13. Level Meter
14. Graphic Equalizer Controls
15. Balance Control
16. Volume Control
17. Function Selector Switch
18. Deck 1) Tape Selector Switch
19. Deck 2) Tape Selector Switch
20. Dolby NR Switch
21. Dubbing Speed Selector Switch
22. Deck 1) Rewind Button
23. Deck 1) Play Button
24. Deck 1) Fast Forward Button
25. Deck 1) Stop/Eject Button
26. Deck 2) Record Button
27. Deck 2) Rewind Button
28. Deck 2) Play Button
29. Deck 2) Fast Forward Button
30. Deck 2) Stop/Eject Button
31. Deck 2) Pause Button
32. Tape Counter and Tape Counter Reset Button
33. Headphones Jack
34. Power Switch
35. Speaker Output Terminals
36. External MW/LW Antenna Terminal
37. MW/LW Antenna Earth Terminal
38. External FM Antenna Terminal
39. Beat Cancel Switch
40. AC Power Supply Cord
41. CD/AUX Socket

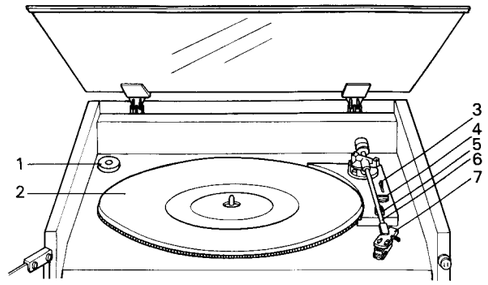


Figure 5–1

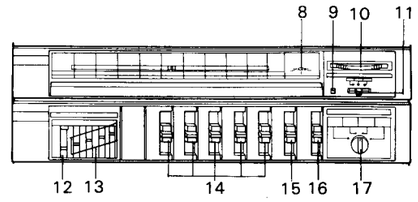


Figure 5–2

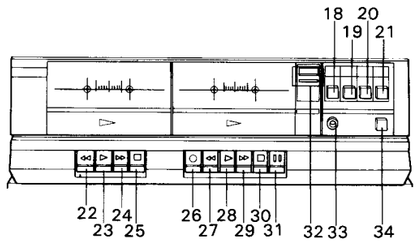


Figure 5–3

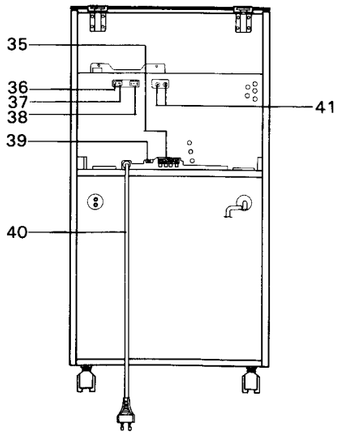


Figure 5–4

(D) BEZEICHNUNG DER TEILE

1. Mittelstück für 17cm Langspielplatten
2. Plattenteller und Matte
3. Tonarmlifthebel
4. Drehzahlwahlschalter
5. Tonarmauflage
6. Tonarm
7. Tonabnehmerträger
8. UKW-Stereoanzeige
9. UKW-Betriebsartenschalter
10. Abstimmsteller
11. Wellenbereichswahlschalter
12. Einschaltanzeige
13. Pegelanzeige
14. Frequenzgangentzerrersteller
15. Balancesteller
16. Lautstärkesteller
17. Funktionswahlschalter
18. Deck 1) Bandsortenwahlschalter
19. Deck 2) Bandsortenwahlschalter
20. Dolby-NR-Schalter
21. Überspielgeschwindigkeitswahlschalter
22. Deck 1) Rückspultaste
23. Deck 1) Wiedergabetaste
24. Deck 1) Schnellvorlauftaste
25. Deck 1) Stopp-/Auswurftaste
26. Deck 2) Aufnahmetaste
27. Deck 2) Rückspultaste
28. Deck 2) Wiedergabetaste
29. Deck 2) Schnellvorlauftaste
30. Deck 2) Stopp-/Auswurftaste
31. Deck 2) Pausentaste
32. Bandzählwerk und Bandzählwerk-Rückstelltaste
33. Kopfhörerstecker
34. Netzschalter
35. Lautsprecher-Ausgangsanschlüsse
36. MW/LW-Außenantennen-anschluß
37. MW/LW-Antennenerd-anschluß
38. UKW-Anßenantennen-anschluß
39. Schwebungsunterdrückungsschalter
40. Netzkabel
41. CD/AUX-Buchsen

(F) NOMENCLATURE

1. Adaptateur de disque EP 17cm
2. Plateau et tapis
3. Levier de lève-bras
4. Bouton de sélection de vitesse
5. Aqqui de bras
6. Bras de lecture
7. Coque de tête
8. Témoin de FM stéréo
9. Commutateur de mode FM
10. Commande d'accord
11. Commutateur de sélection de gamme d'ondes
12. Témoin d'alimentation
13. Compteur de niveau
14. Commandes d'égaliseur graphique
15. Commande de balance
16. Commande de volume
17. Commutateur de sélection de fonction
18. Platine 1) Commutateur de sélection de bande
19. Platine 2) Commutateur de sélection de bande
20. Commutateur Dolby NR
21. Sélecteur de vitesse de copie
22. Platine 1) Bouton de rebobinage
23. Platine 1) Bouton de lecture
24. Platine 1) Bouton d'avance rapide
25. Platine 1) Bouton d'arrêt/éjection
26. Platine 2) Bouton d'enregistrement
27. Platine 2) Bouton de rebobinage
28. Platine 2) Bouton de lecture
29. Platine 2) Bouton d'avance rapide
30. Platine 2) Bouton d'arrêt/éjection
31. Platine 2) Bouton de pause
32. Compteur de bande et bouton de remise à zéro du compteur
33. Jack de casque
34. Commutateur d'alimentation
35. Bornes de sortie d'enceinte
36. Borne d'antenne PO/GO extérieure
37. Borne de terre d'antenne PO/GO
38. Borne d'antenne FM extérieure
39. Commutateur de suppression de battement
40. Cordon d'alimentation
41. Douilles CD/AUX

Ⓔ DISASSEMBLY

Caution on Disassembly
Follow the below-mentioned notes when disassembling the unit and reassembling it, to keep its safety and excellent performance:
1. Take cassette tape and record out of the unit.
2. Be sure to remove the power supply plug from the wall outlet before starting to disassemble the unit.
3. Take off nylon bands or wire holders where they need be removed when disassembling the unit. After servicing the unit, be sure to rearrange the leads where they were before disassembling.
4. Take sufficient care on static electricity of integrated circuits and other circuits when servicing.

STEP	REMOVAL	PROCEDURE	FIGURE
Player Unit			
1	Player Unit	1. Mat . . . . . (A)x1 2. Lift up the player unit . . . . . (B) 3. Socket . . . . (C)x2	7–1 7–2
2	Turntable	1. Screw . . . . . (D)x1 2. Belt . . . . . (E)x1 3. Turntable . . . (F)x1	7–2
Audio Unit			
3	Glass and Hinge	1. Screw . . . . . (G)x6	7–3
4	Back Board	1. Screw . . . . . (H)x5	7–4
5	Compact Disc Player	1. Draw out the compact disc player.	7–3

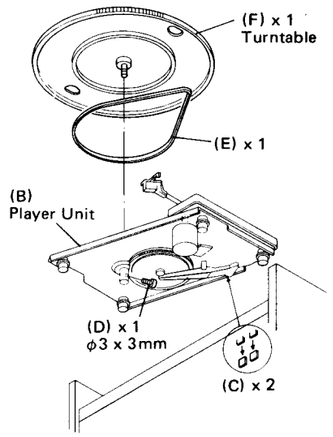


Figure 7–2

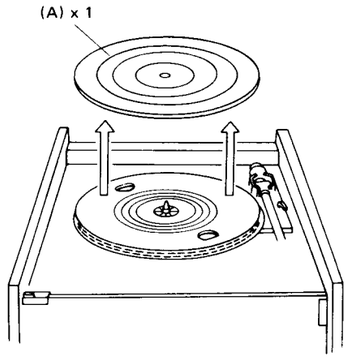


Figure 7–1

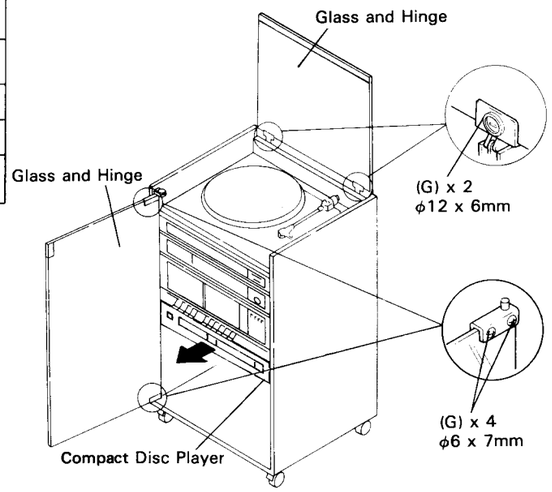


Figure 7–3

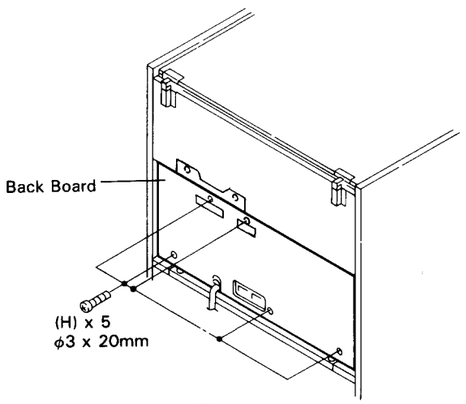


Figure 7–4

Ⓓ ZERLEGEN

Vorsichtsmassregeln für das zerlegen
Beim Zerlegen und Zusammenbauen des Gerätes die folgenden Anweisungen befolgen, um dessen Betriebssicherheit und ausgezeichnete Leistung aufrechtzuerhalten.
1. Cassette und schallplatte aus dem Gerät entfernen.
2. Bevor mit dem Zerlegen des Gerätes begonnen wird, unbedingt den Netzkabelstecker aus der Netzsteckdose ziehen.
3. Nylonbänder oder Leitungshalter entfernen, falls dies beim Zerlegen des Gerätes erforderlich ist. Nach Warten des Gerätes darauf achten, die Leitungen wieder so zu verlegen, wie sie vor dem Zerlegen angeordnet waren.
4. Beim Ausführen von Wartungsarbeiten auf statische Elektrizität der integrierten Schaltkreise und anderen Schaltungen achten.

SCHRITT	ENTFERNEN	VERFAHREN	ABBILDUNG
Plattenspielereinheit			
1	Plattenspielereinheit	1. Matte . . . . . (A)x1 2. Plattenspielereinheit hochhaben . . . (B) 3. Buchse . . . . (C)x2	7–1 7–2
2	Plattenteller	1. Schraube . . . (D)x1 2. Riemen . . . . (E)x1 3. Plattenteller . (F)x1	7–2
Audioeinheit			
3	Glas und Angel	1. Schraube . . . (G)x6	7–3
4	Brett Gehälfte	2. Schraube . . . (H)x5	7–4
5	CD-Spieler	1. Den CD-Spieler herausziehen.	7–3

Ⓕ DÉMONTAGE

Précautions pour le démontage
Lors du démontage de l'appareil et de son remontage, suivre les précautions ci-dessous, pour maintenir la sécurité et d'excellentes performances.
1. Déposer la bande cassette et le disque de l'appareil.
2. S'assurer de retirer la fiche d'alimentation secteur de la prise murale avant de démarrer le démontage de l'appareil.
3. Déposer les bandes de nylon ou les serre-câbles si nécessaire lors du démontage de l'appareil. Après la réparation de l'appareil, s'assurer de redisposer les fils tel qu'ils étaient avant le démontage.
4. Faire attention à l'électricité statique des circuits intégrés et des autres circuits lors de la réparation.

ÉTAPE	DÉPOSE	PROCÉDÉ	FIGURE
Unité de tournedisques			
1	Unité de tournedisques	1. Natte . . . . . (A)x1 2. Élévation le unité de tournedisques . . . (B) 3. Douille . . . . . (C)x2	7–1 7–2
2	Plateau	1. Vis . . . . . (D)x1 2. Courroie . . . . (E)x1 3. Plateau . . . . . (F)x1	7–2
Unité de acoustique			
3	Verre et gond	1. Vis . . . . . (G)x6	7–3
4	Coffret Verrat	1. Vis . . . . . (H)x5	7–4
5	Lecteur de disque compact	1. Sortir le lecteur de disque compact.	7–3

Ⓔ

STEP	REMOVAL	PROCEDURE	FIGURE
6	Audio Unit	1. Screw . . . . . (I)x10	9–1, 9–2
7	Mechanism	1. Open the cassette holder . . . . . (J) 2. Screw . . . . . (K)x8 3. Socket . . . . (L)x4 4. Push rivet . . . (M)x2 5. Tape counter drive belt . . . . . (N)x1	9–3
8	Power Switch P.W.B. and Tape Selector Switch P.W.B.	1. Screw . . . . . (O)x3 2. Hook . . . . . (P)x4	9–4
9	Function Selector P.W.B.	1. Knob . . . . . (Q)x1 2. Nut . . . . . (R)x1	9–4
10	Graphic Equalizer P.W.B.	1. Knob . . . . . (S)x7 2. Screw . . . . . (T)x3 3. Hook . . . . . (U)x7	9–4
11	Tuner P.W.B.	1. Dial cord . . . (V) 2. Hook . . . . . (W)x3	9–4
12	Main P.W.B.	1. Screw . . . . . (X)x7 2. Socket. . . . . (Y)x7 3. Holder. . . . . (Z)x1	10–1

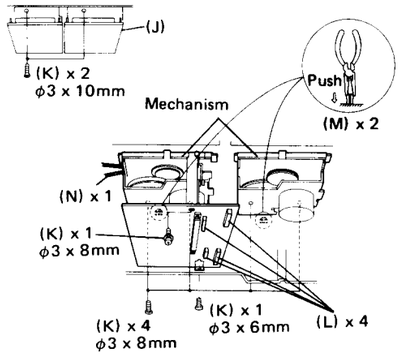


Figure 9–3

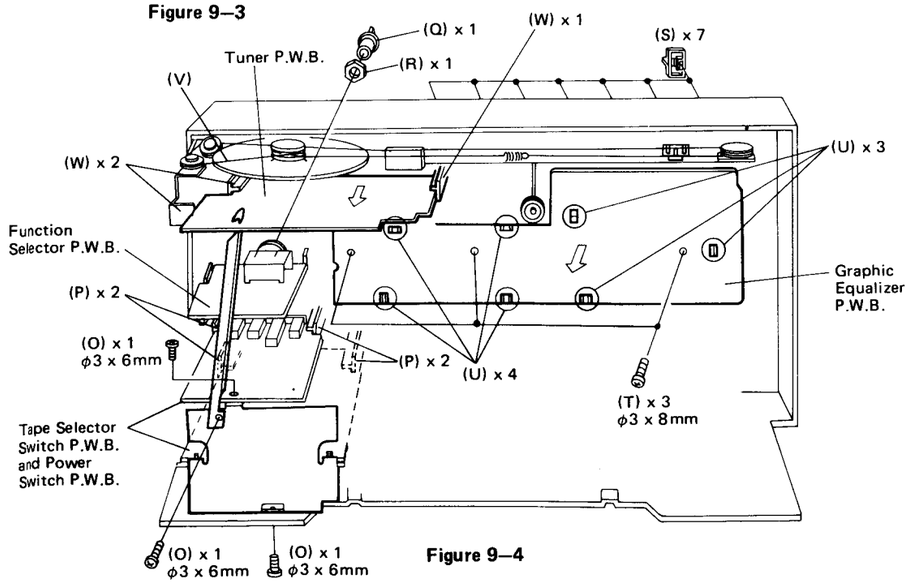


Figure 9–4

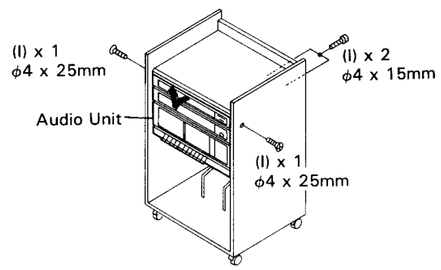


Figure 9–1

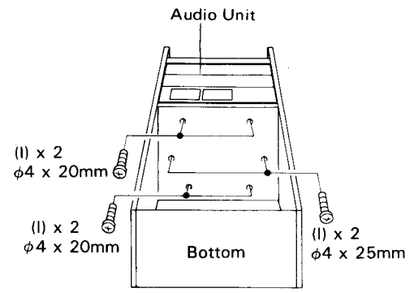


Figure 9–2

Ⓓ

SCHRITT	ENTFERNEN	VERFAHREN	ABBILDUNG
6	Audioeinheit	1. Schraube . . . (I)x10	9–1, 9–2
7	Laufwerk	1. Cassettenhalter öffnen . . . . . (J) 2. Schraube . . . (K)x8 3. Buchse . . . . (L)x4 4. Stoßnieten . . (M)x2 5. Bandzählwerk-Antriebsriemen . (N)x1	9–3
8	Leistungsverstärker-Leiterplatte und bansorten-wahlschalter-Leiterplatte	1. Schraube . . . (O)x3 2. Crochet . . . . (P)x4	9–4
9	Funktionswahlschalter-Leiterplatte	1. Knopf . . . . . (Q)x1 2. Mutter . . . . (R)x1	9–4
10	Graphischer Frequenzgangentzerrer-Leiterplatte	1. Knopf . . . . . (S)x7 2. Schraube . . . (T)x3 3. Crochet . . . . (U)x7	9–4
11	Tuner-Leiterplatte	1. Skalenschnur . (V) 2. Crochet . . . . (W)x3	9–4
12	Hauptleiterplatte	1. Schraube . . . (X)x7 2. Buchse. . . . . (Y)x7 3. Halter . . . . . (Z)x1	10–1

Ⓕ

ÉTAPE	DÉPOSE	PROCÉDÉ	FIGURE
6	Unité de acoustique	1. Vis . . . . . (I)x10	9–1, 9–2
7	Mécanisme	1. Ouvrir le porte-cassette . . . . . (J) 2. Vis . . . . . (K)x8 3. Douille . . . . . (L)x4 4. Rivet-poussoir . (M)x2 5. Courroie d'entraînement du compteur de bande . . . . . (N)x1	9–3
8	P.M.I. de amplificateur de puissance et P.M.I. de sélecteur de band	1. Vis . . . . . (O)x3 2. Haken . . . . . (P)x4	9–4
9	P.M.I. de sélecteur de fonction	1. Bouton . . . . . (Q)x1 2. Écrou . . . . . (R)x1	9–4
10	P.M.I. de egalisateur graphyque	1. Bouton . . . . . (S)x7 2. Vis . . . . . (T)x3 3. Haken . . . . . (U)x7	9–4
11	P.M.I. du tuner	1. Cordon de cadran . . . . . (V) 2. Haken . . . . . (W)x3	9–4
12	P.M.I. principale	1. Vis. . . . . (X)x7 2. Douille . . . . . (Y)x7 3. Support . . . . . (Z)x1	10–1

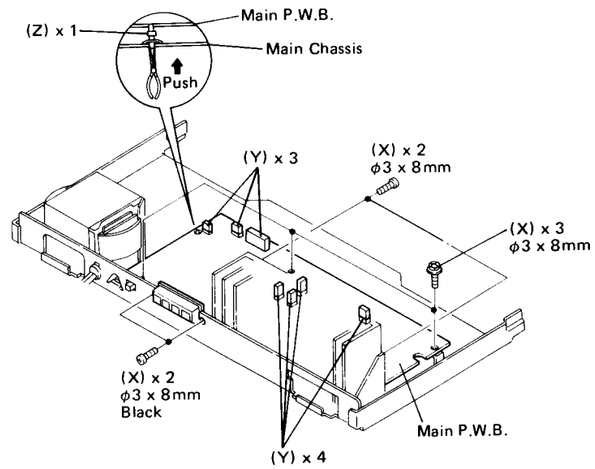


Figure 10–1

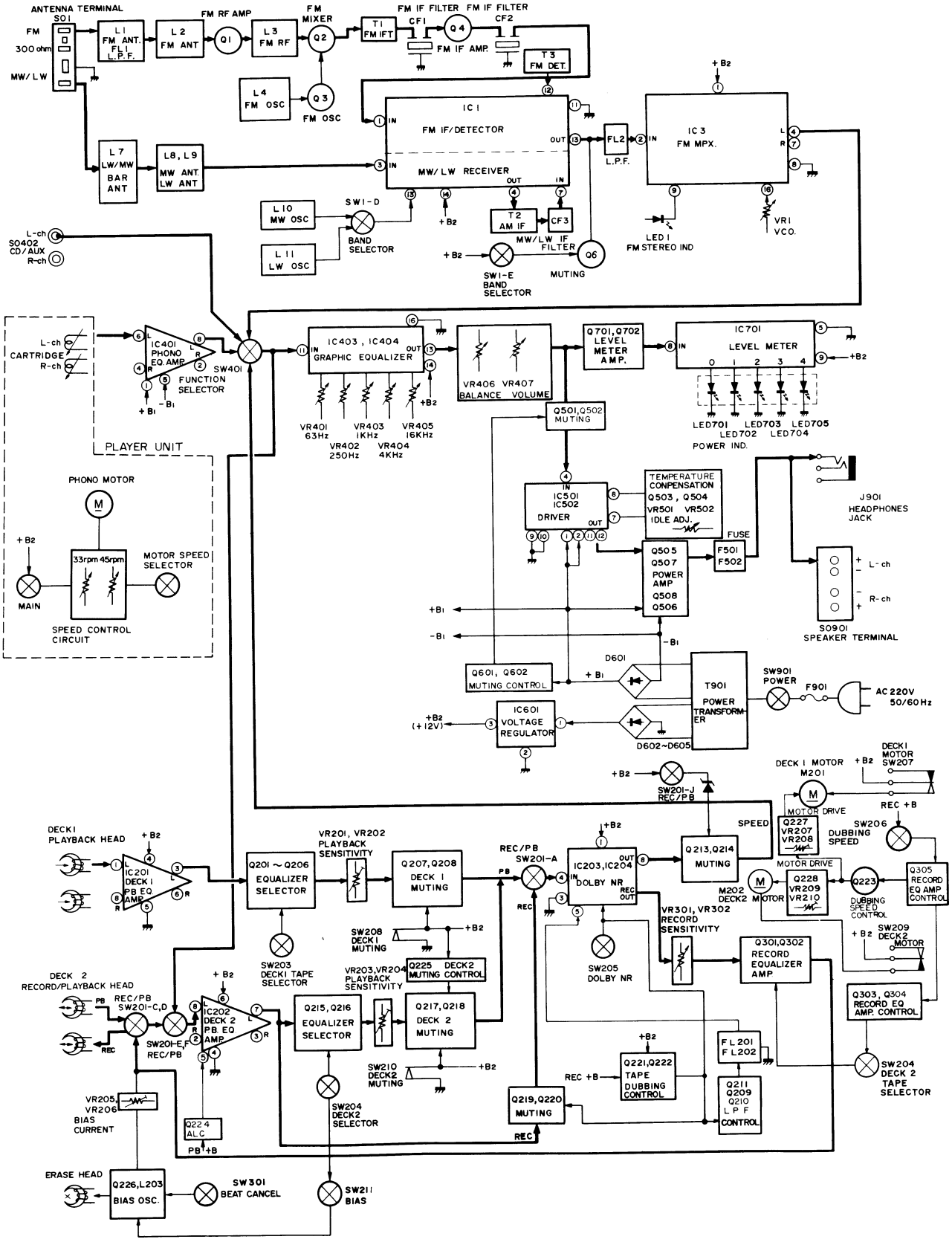


Figure 11 BLOCK DIAGRAM

MECHANICAL ADJUSTMENT (TAPE SECTION)

ITEM	JIG	ADJUSTMENT POINTS	REMARKS (CHECK)
Driving power	Tape tension measuring cassette TW-2412	——	(More than 180 g)
Torque	Torque meter Play TW-2111 Fast-forward TW-2231 Rewind TW-2231	——	(Play: 35-60 g-cm) (Fast-forward: 70-110 g-cm) (Rewind: 70-110 g-cm)
Azimuth	Test tape MTT-114	Azimuth adjusting screw	Sine waveform attains the maximum.
Tape speed	Test tape MTT-111	Normal speed Deck 1: VR207 Deck 2: VR209 High speed Deck 1: VR208 Deck 2: VR210 * Short TP210 and ground when performing the high speed adjustment.	Normal speed Deck 1: 2990 ± 20Hz Deck 2: within −25Hz different from that of Deck 1 High speed Deck 1: 5980 ± 50Hz Deck 2: within −50Hz different from that of Deck 1 * Perform the normal speed adjustment first and then the high speed adjustment.

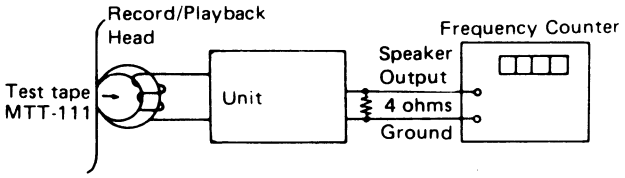


Figure 12–2 TAPE SPEED

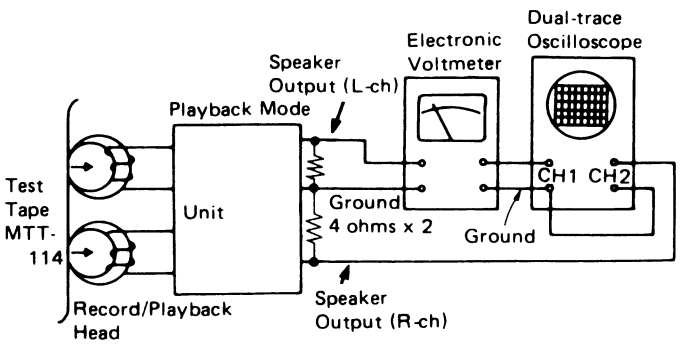


Figure 12–1 AZIMUTH

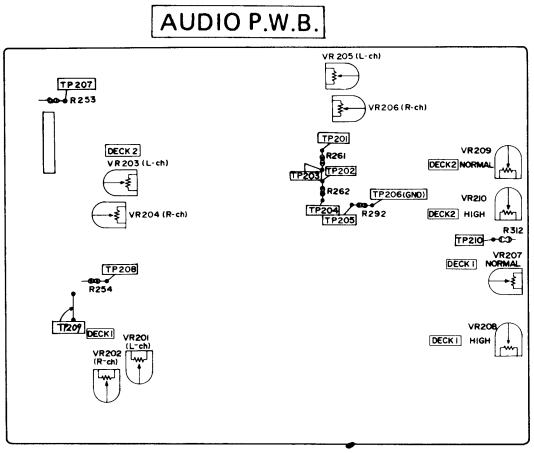


Figure 12–3 ADJUSTMENT POINTS

MECHANICAL ADJUSTMENT (PLAYER SECTION)

ITEM	JIG	ADJUSTMENT POINTS	REMARKS (CHECK)
Turntable speed	LP record which is provided with strobo viewer	33r.p.m. speed 45r.p.m. speed	Phono motor is kept in rotation.

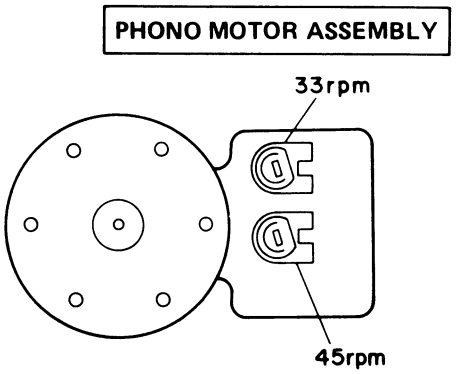


Figure 12–4 ADJUSTMENT POINTS

CIRCUIT ADJUSTMENT (AUDIO SECTION)

IDLE CURRENT

SETTING POSITION	Volume Control: 0
ADJUSTMENT POINT	REMARKS
VR501, VR502	1.0 – 4.0 mV

R515: L-channel
R516: R-channel

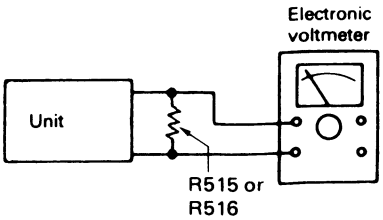


Figure 12–5

Ⓓ MECHANISCHE EINSTELLUNG (BANDTEIL)

BE-NENNUNG	FÜHRUNGS-LEHRE	EINSTELL-PUNKT	BEMERKUNGEN (PRÜFUNG)
Antriebs-kraft	Bandzug-Meßcassette TW-2412	———	(Mehr als 180 g)
Drehmo-ment	Drehmoment-messer Wiedergabe: TW-2111 Schnellvorlauf: TW-2231 Rückspulung: TW-2231	———	(Wiedergabe: 35–60 g-cm) (Schnellvorlauf: 70–110 g-cm) (Rückspulung: 70–110 g-cm)
Azimut	Testband MTT-114	Azimuteinstell-schraube	Sinuswellenform wird maximal.
Bandgesch-windigkeit	Testband MTT-111	Normal Ge-schwindigkeit Deck 1: VR207 Deck 2: VR209 Hohe Ge-schwindigkeit Deck 1: VR208 Deck 2: VR210 * Bei der Ein-stellung der hohen Ge-schwindigkeit TP210 und Erde kurz-schließen.	Normal Geschwin-digkeit Deck 1: 2990 ± 20Hz Deck 2: Bis zu −25Hz Unter-schied gegenüber Deck 1 Hohe Geschwindig-keit Deck 1: 5980 ± 50Hz Deck 2: Bis zu −50Hz Unter-schied gegenüber Deck 1 * Zuerst die normale, dann die hohe Geschwin-digkeit einstellen.

Ⓕ RÉGLAGE MÉCANIQUE (SECTION DU MAGNÉTOPHONE)

ARTICLE	GABARIT	POINTS DE RÉGLAGE	REMARQUES (VÉRIFICATION)
Puissance d'entraî-nement	Cassette de mesure de tension de la band TW-2412	———	(Plus de 180 g)
Couple	Compteur de couple Lecture: TW-2111 Avance rapide: TW-2231 Rebobinage: TW-2231	———	(Lecture: 35 à 60 g-cm) (Avance rapide: 70 à 110 g-cm) (Rebobinage: 70 à 110 g-cm)
Azimuth	Bande d'essai MTT-114	Vis de réglage de l'azimuth	La forme d'onde sinusoïdale atteint le maximum.
Vitesse de la bande	Bande d'essai MTT-111	Vitesse nor-male Platine 1: VR207 Platine 2: VR209 Grande vitesse Platine 1: VR208 Platine 2: VR210 * Mettre la platine TP210 à la terre lors du réglage à vitesse élevée.	Vitesse normale Platine 1: 2990 ± 20Hz Platine 2: De l'ordre de −25Hz de cell de la Platine 1 Grande vitesse Platine 1: 5980 ± 50Hz Platine 2: De l'ordre de −50Hz de celle de la Platine 1 * Effectuer d'abord le réglage de la vitesse normale et ensuit celui de la grande vitesse.

MECHANISCHE EINSTELLUNG (PLATTENSPIELER-TEIL)

BENENNUNG	FÜHRUNG-SLEHRE	EINSTELL-PUNKT	BEMERKUNGEN (PRÜFUNG)
Plattenteller-drehzahl	Mit Stroboskop-muster versehe-ne Langspiel-platte	Drehhahl 33 u/min: Drehzahl 45 U/min:	Plattenspieler-motor dreht sich weiter.

RÉGLAGE MÉCANIQUE (SECTION DU LECTEUR)

ARTICLE	GABARIT	POINTS DE RÉGLAGE	REMARQUES
Vitesse du plateau	Disque 33 tours fourni avec le viseur strobo-scopique	Vitesse de 33 t/mn: Vitesse de 45 t/mn:	Le moteur du phono est laissé en rotation.

SCHALTUNGSEINSTELLUNG (TONTEIL)

RUGESTROM

EINSTELLPOSITION	Lautstärkesteller: 0
EINSTELLPUNKT	BEMERKUNGEN
VR501, VR502	1,0 – 4,0 mV

RÉGLAGE DU CIRCUIT (SECTION DU AUDIO)

COURANT DÉWATTÉ

RÉGLAGE DE LA POSITION	Commande de volume: 0
POINT DE RÉGLAGE	REMARQUES
VR501, VR502	1,0 – 4,0 mV

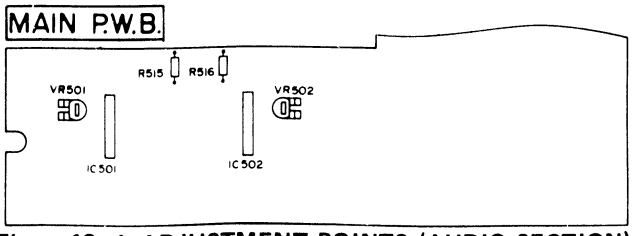


Figure 13–1 ADJUSTMENT POINTS (AUDIO SECTION)

Ⓔ CIRCUIT ADJUSTMENT (AUDIO SECTION)

SETTING POSITION OF SWITCH AND KNOB	• Volume control: Maximum • Balance control: Center • Graphic equalizer control: Center • Function selector switch: Tape • Dolby NR switch: off • Tape selector switch: Normal • Beat cancel switch: A

ITEM	INPUT	ADJUSTMENT POINT	REMARKS (CHECK)
BIAS OSCILLATION FREQUENCY	———	L203	A: 85 ± 6 kHz B: (−2 ± 0.4 kHz) C: (−6 ± 1.0 kHz)
BIAS CURRENT	———	L: VR205 R: VR206	Normal: 42 mV CrO_2: (55−75 mV)
ERASE CURRENT	———	———	Normal: (Over 50 mV) CrO_2: (90 − 130 mV)
DECK 1 PLAYBACK SENSITIVITY	Test tape MTT-150	L: VR201 R: VR202	Normal: 580 mV
DECK 2 PLAYBACK SENSITIVITY	Test tape MTT-150	L: VR203 R: VR204	Normal: 580 mV
RECORD/ PLAYBACK SENSITIVITY	Non-recorded tape (MTT-502) 1 kHz, −18 dB (1V = 0 dB)	L: VR301 R: VR302	1. Adjust the Attenuator so that the electronic voltmeter reads 410 mV. 2. Playback the normal tape recorded and adjust the semi-variable resistor so that the electronic voltmeter reads 410 mV.

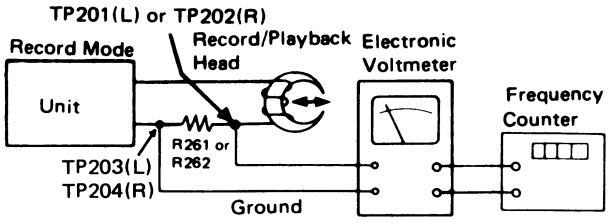


Figure 14–1 BIAS OSCILLATOR FREQUENCY/BIAS CURRENT

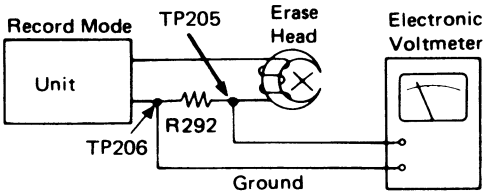


Figure 14–2 ERASE CURRENT

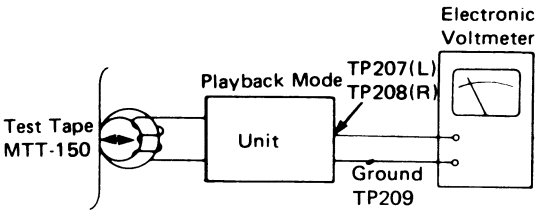


Figure 14–3 DECK 1/DECK 2 PLAYBACK SENSITIVITY

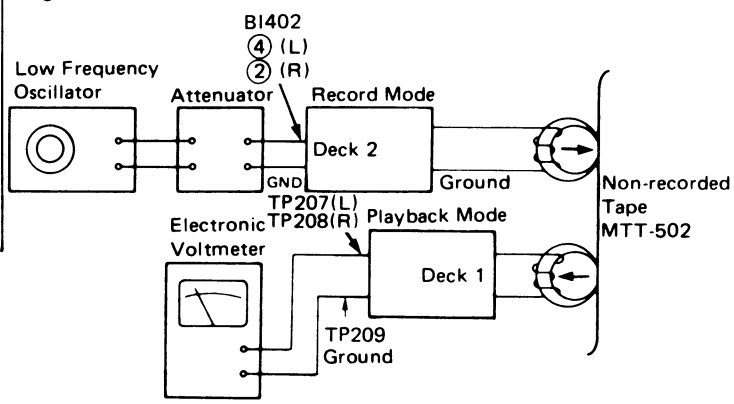
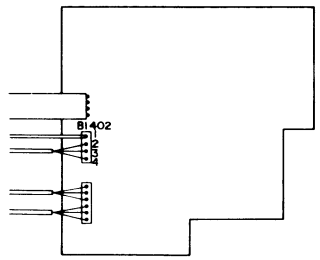
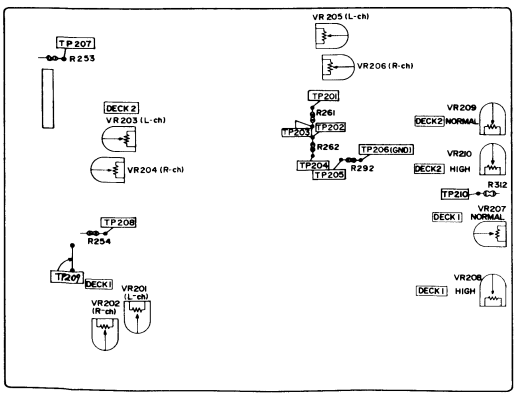


Figure 14–4 RECORD/PLAYBACK SENSITIVITY

FUNCTION SELECTOR P. W. B



AUDIO P.W.B.



TAPE SELECTOR SWITCH P.W.B.

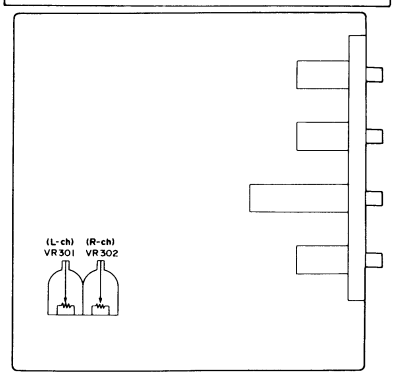


Figure 14–5 ADJUSTMENT POINTS

Ⓓ SCHALTUNGSEINSTELLUNG (TONTEIL)

SCHALTER- UND STELLER-EINSTELL-POSITION	• Lautstärkesteller: Maximal • Balancesteller: Mitting • Graphic Equalizer-Steller: Mittig • Funktionswahlschalter: Tape (Band) • Dolby-NR-Schalter: Aus • Bandsortenwahlschalter: Normal • Schwebungsunterdrückungsschalter: A		
BENENNUNG	**EIN-GANG**	**EIN-STELL-PUNKT**	**BEMERKUNGEN (PRÜFUNG)**
VORMAGNETI-SIERUNGS-SCHWING-FREQUENZ	———	L203	A: 85 ± 6 kHz B: (–2 ± 0,4 kHz) C: (–6 ± 1,0 kHz)
VORMAGNETI-SIERUNGS-STROM	———	L: VR205 R: VR206	Normalband: 42 mV CrO_2-Band: (55–75 mV)
LÖSCHSTROM	———	———	Normalband: (Über 50 mV) CrO_2-Band: (90 – 130 mV)
WIEDERGABE-EMPFIND-LICHKEIT VON DECK 1	Testband MTT-150	L: VR201 R: VR202	Normalband: 580 mV
WIEDERGABE-EMPFIND-LICHKEIT VON DECK 2	Testband MTT-150	L: VR203 R: VR204	Normalband: 580 mV
AUFNAHME-/ WIEDERGABE-EMPFIND-LICHKEIT	Unbespieltes Band (MTT-502) 1 Hz, –18 dB (1 V = 0 dB)	L: VR301 R: VR302	1. Den Dämpfungsglied so einstellen, daß der elektronische Spannungsmesser 410 mV anzeigt. 2. Das bespielte Normalband wiedergeben und den Trimmer so einsteelen, daß der elecktronische Spannungsmesser 410 mV anzeigt.

Ⓕ REGLAGE DU CIRCUIT (SECTION DU AUDIO)

REGLAGE DE LA POSITION DES COMMUTA-TEURS ET DES BOUTONS	• Commande de volume: Maximum • Commande d'équilibrage: Centre • Commandes d'égaliseur graphicque: Centre • Commutateur de sélection de fonction: Bande • Commutateur Dolby NR: Coupé • Commutateur de sélection de bande: Normal • Commutateur de suppression de battement: A		
ARTICLE	**ENTRÉE**	**POINT DE RÈGLAGE**	**REMARQUES (VÉRIFICATION)**
FRÉQUENCE DE L'OSCILLA-TION DE POLARISATION	———	L203	A: 85 ± 6 kHz B: (–2 ± 0,4 kHz) C: (–6 ± 1,0 kHz)
COURANT DE POLARI-SATION	———	G: VR205 D: VR206	Normal: 42 mV CrO_2: (55 à 75 mV)
COURANT D'EFFACEMENT	———	———	Normal: (Sur 50 mV) CrO_2: (90 à 130 mV)
SENSIBILITÉ DE LECTURE DE LA PLATINE 1	Bande d'essai MTT-150	G: VR201 D: VR202	Normal: 580 mV
SENSIBILITÉ DE LECTURE DE LA PLATINE 2	Bande d'essai MTT-150	G: VR203 D: VR204	Normal: 580 mV
SENSIBILITÉ D'ENREGISTRE-MENT/ LECTURE	Bande non enregistrée (MTT-502) 1 Hz, –18 dB (1V = 0 dB)	G: VR301 D: VR302	1. Régler la atténu-ateur de telle sorte que le voltmètre électronique indique 410 mV. 2. Lire une bande normale en-registrée et régler la résistance semi-variable de telle sorte que le volt-mètre électronique indique 410 mV.

Ⓔ

CIRCUIT ADJUSTMENT (TUNER SECTION)

MW/LW IF/RF ADJUSTMENT

SIGNAL GENERATOR		400 Hz, 30%, AM modulated			
STEP	TEST STAGE	FRE-QUENCY	DIAL POINTER SETTING	AD-JUST-MENT	REMARKS
MW IF					
1	IF	455 kHz	High frequency	T2	Adjust for best "IF" curve.
MW RF					
2	Band coverage	513 kHz	Lowest frequency	L10	Adjust for maximal output.
3		1,650 kHz	Highest frequency	TC6	
4	Repeat steps 2 and 3 until no further improvement can be made.				
5	Tracking	600 kHz	600 kHz	L8	Adjust for maximal output.
6		1,400 kHz	1,400 kHz	TC4	
7	Repeat steps 5 and 6 until no further improvement can be made.				
LW RF					
8	Band coverage	144 kHz	Lowest frequency	L11	Adjust for maximal output.
9		295 kHz	Highest frequency	TC7	
10	Repeat steps 8 and 9 until no further improvement can be made.				
11	Tracking	160 kHz	160 kHz	L9	Adjust for maximal output.
12		260 kHz	260 kHz	TC5	
13	Repeat steps 11 and 12 until no further improvement can be made.				

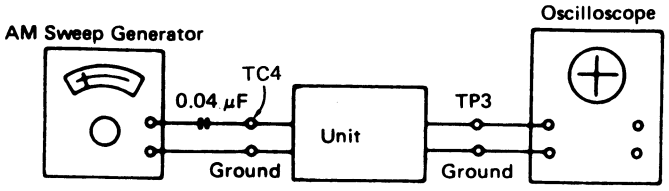


Figure 16–1 AM IF

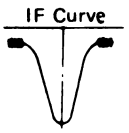


Figure 16–2

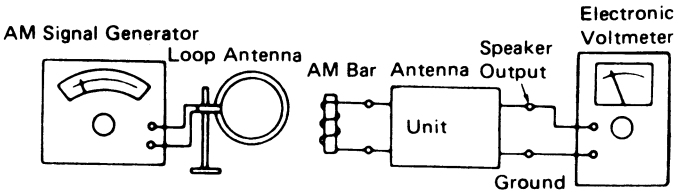


Figure 16–3 MW/LW RF

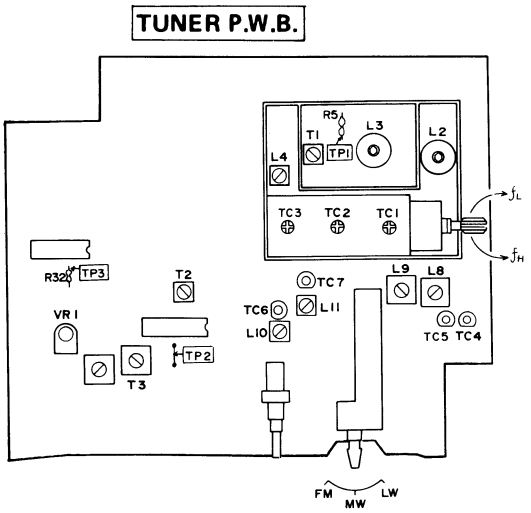


Figure 16–4 ADJUSTMENT POINTS

Ⓓ SCHALTUNGSEINSTELLUNG (TUNERTEIL)

MW/LW-ZF/HF EINSTELLUNG

SIGNAL-GENERATOR		400 Hz, 30%, AM-Modulation			
SCHRITT	PRÜFSTUFE	FREQUENZ	SKALENZEIGEREINSTELLUNG	EINSTELLUNG	BEMERKUNGEN
MW ZF					
1	ZF	455 kHz	Hochfrequenz	T2	Auf beste ZF-Kurve einstellen.
MW HF					
2	Frequenzbereich	513 kHz	Unterste Frequenz	L10	Auf maximalen Ausgang einstellen.
3		1 650 kHz	Höchste Frequenz	TC6	
4	Die Schritte 2 und 3 wiederholen, bis keine weitere Verbesserung möglich ist.				
5	Gleichlauf	600 kHz	600 kHz	L8	Auf maximalen Ausgang einstellen.
6		1 400 kHz	1 400 kHz	TC4	
7	Die Schritte 5 und 6 wiederholen, bis keine weitere Verbesserung möglich ist.				
LW HF					
8	Frequenzbereich	144 kHz	Unterste Frequenz	L11	Auf maximalen Ausgang einstellen.
9		295 kHz	Höchste Frequenz	TC7	
10	Die Schritte 8 und 9 wiederholen, bis keine weitere Verbesserung möglich ist.				
11	Gleichlauf	160 kHz	160 kHz	L9	Auf maximalen Ausgang einstellen.
12		260 kHz	260 kHz	TC5	
13	Die Schritte 11 und 12 wiederholen, bis keine weitere Verbesserung möglich ist.				

Ⓕ RÉGLAGE DU CIRCUIT (SECTION DU TUNER)

RÉGLAGE DE FI/RF PO/GO

GÉNÉRATEUR DE SIGNAUX		400 Hz, 30% , modulé AM			
ÉTAPE	ÉTAGE D'ESSAI	FRÉQUENCE	MISE AU POINT DE L'INDEX	RÉGLAGE	REMARQUES
FI PO					
1	FI	455 kHz	Haute fréquence	T2	Régler sur la meilleure courbe "FI".
RF PO					
2	Étendue de gamme d'ondes	513 kHz	Fréquence la plus basse	L10	Régler sur la sortie maximale.
3		1 650 kHz	Fréquence la plus élevée	TC6	
4	Refaire les étapes 2 et 3 jusqu'à ce qu'une amélioraton ultérieure ne puisse plus être obtenue.				
5	Alignement	600 kHz	600 kHz	L8	Régler sur la sortie maximale.
6		1 400 kHz	1 400 kHz	TC4	
7	Refaire les étapes 5 et 6 jusqu'à ce qu'une amélioration ultérieure ne puisse plus être obtenue.				
RF GO					
8	Étendue de gamme d'ondes	144 kHz	Fréquence la plus basse	L11	Régler sur la sortie maximale.
9		295 kHz	Fréquence la plus élevée	TC7	
10	Refaire les étape 8 et 9 jusqu'à ce qu'une amélioration ultérieure ne puisse plus être obtenue.				
11	Alignement	160 kHz	160 kHz	L9	Régler sur la sortie maximale.
12		260 kHz	260 kHz	TC5	
13	Refaire les étapes 11 et 12 jusqu'à ce qu'une amélioration ultérieure ne puisse plus être obtenue.				

Ⓔ

FM IF/RF ADJUSTMENT

SWITCH POSITION		FM mono			
SIGNAL GENERATOR		1 kHz, 75 kHz dev., FM modulated.			
STEP	TEST STAGE	FRE-QUENCY	DIAL POINTER SETTING	AD-JUST-MENT	REMARKS
1	IF	10.7 MHz	High frequency	T1	1. Using a minus driver, turn the core of T3 counter-clockwise before taking it out of the bobbin. 2. Adjust for best "IF" curve.
2	Detection			T3	Adjust for best "S" curve.
3	Repeat steps 1 and 2 until no further improvement can be made.				
4	Band coverage	87.1 MHz	Lowest frequency	L4	Adjust for maximal output.
5		109.0 MHz	Highest frequency	TC3	
6	Repeat steps 4 and 5 until no further improvement can be made.				
7	Tracking	90 MHz	90 MHz	L2, L3	Adjust for maximal output.
8		106 MHz	106 MHz	TC1, TC2	
9	Repeat steps 7 and 8 until no further improvement can be made.				

VCO FREQUENCY ADJUSTMENT

SIGNAL GENERA-TOR	1 kHz, 75kHz dev., FM modulated (mono signal)		
FREQU-ENCY	DIAL POINTER SETTING	AD-JUST-MENT	REMARKS
FM mono position			FM stereo position (unmodulated)
98 MHz at 60 dB	98 MHz	VR1	Adjust for 38.00 kHz ± 60 Hz.

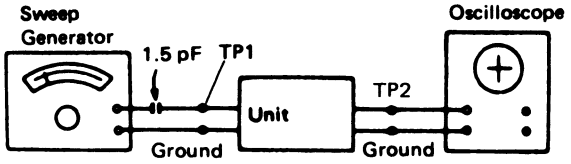


Figure 18–1 FM IF

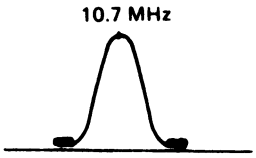


Figure 18–2 FM IF CURVE

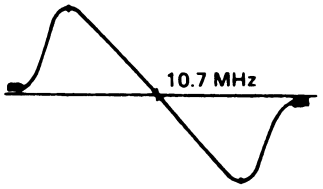


Figure 18–3 FM "S" CURVE

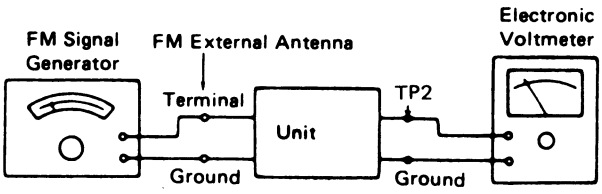


Figure 18–4 FM RF

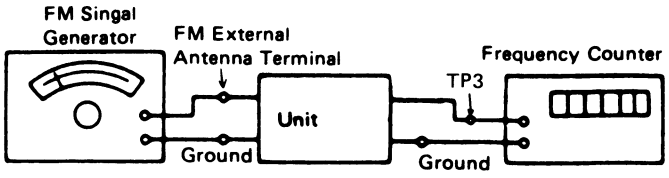


Figure 18–5 VCO FREQUENCY

Ⓓ

UKW-ZF/HF-EINSTELLUNG

SCHALTER-STELLUNG		FM mono			
SIGNAL-GENERATOR		1 kHz, 75 kHz Abweichung, UKW-Modulation			
SCH-RITT	PRÜF-STUFE	FRE-QUENZ	SKALEN-ZEIGEREIN-STELLUNG	EIN-STEL-LUNG	BEMER-KUNGEN
1	ZF	10,7 MHz	Hoch-frequenz	T1	1. Den Kern von T3 mit Hilfe eines normalen Schrauben-ziehers ent-gegen dem Uhrzeigersinn drehen, bevor dieser aus der Spule ge-nommen wird. 2. Auf beste ZF-Kurve einstellen.
2	Detek-tion			T3	Auf beste S-Kurve einstellen
3	Die Schritte 1 und 2 wiederholen, bis keine weitere Verbesserung möglich ist.				
4	Fre-quenz-bereich	87,1 MHz	Unterste Frequenz	L4	Auf maximalen Ausgang einstellen.
5		109,0 MHz	Höchste Frequenz	TC3	
6	Die Schritte 4 und 5 wiederholen, bis keine weitere Verbesserung möglich ist.				
7	Gleich-lauf	90 MHz	90 MHz	L2, L3	Auf maximalen Ausgang einstellen.
8		106 MHz	106 MHz	TC1, TC2	
9	Die Schritte 7 und 8 wiederholen, bis keine weitere Verbesserung möglich ist.				

EINSTELLUNG DER VCO-FREQUENZ

SIGNAL-GENERATOR	1 kHz, 75 kHz Abweichung, UKW-Modulation (Mono-Signal)		
FREQUENZ	SKALEN-ZEIGEREIN-STELLUNG	EIN-STELLUNG	BEMERKUNGEN
"FM mono" einstellen		"FM stero" einstellen (unmoduliert)	
98 MHz bei 60 dB	98 MHz	VR1	Auf 38,00 kHz ± 60 Hz einstellen.

DIE ANWEISUNG DER FREQUENZEINSTELLUNG

Um der Postverfügung Nr. 478/1981 zu entsprechen, wird der UKW-Frequenzbereich mit Hilfe der Oszillatorspule (L4-untere Eckfrequenz: 87,5 MHz) und des Oszillator-trimmers (TC3-obere Eckfrequenz: 108,0 MHz) eingestellt.

Ⓕ

RÉGLAGE DE FI/RF FM

POSITION DU COMMUTATEUR		FM mono			
GÉNÉRATEUR DE SIGNAUX		1 kHz, 75 kHz de déviation, modulé FM			
ÉTAPE	ÉTAGE D'ESSAI	FRÉ-QUENCE	MISE AU POINT DE L'INDEX	RÉ-GLAGE	REMARQUES
1	FI	10,7 MHz	Haute fréquence	T1	1. À l'aide d'un tournevis plat, tourner le noyau de T3 à gauche avant de le sortir de la bobine. 2. Régler sur la meilleure courbe "FI".
2	Détec-tion			T3	Régler sur la meilleure courbe "S".
3	Refaire les étapes 1 et 2 jusqu'à ce qu'une amélioration ultérieure ne puisse plus être obtenue.				
4	Étendur de gamme d'ondes	87,1 MHz	Fréquence la plus basse	L4	Régler sur la sortie maximale.
5		109,0 MHz	Fréquence la plus élevée	TC3	
6	Refaire les étapes 4 et 5 jusqu'à ce qu'une amélioration ultérieure ne puisse plus être obtenue.				
7	Aligne-ment	90 MHz	90 MHz	L2, L3	Régler sur la sortie maximale.
8		106 MHz	106 MHz	TC1, TC2	
9	Refaire les étapes 7 et 8 jusqu'à ce qu'une amélioration ultérieure ne puisse plus être obtenue.				

RÉGLAGE DE LA FRÉQUENCE VCO

GÉNÉRATEUR DE SIGNAUX	1 kHz, 75 kHz de déviation, modulé FM (mono signal)		
FRÉQUENCE	MISE AU POINT DE L'INDEX	RÈGLAGE	REMARQUES
Position FM mono		Position FM stéréo (non modulés)	
98 MHz à 60 dB	98 MHz	VR1	Réglage sur 38,00 kHz ± 60 Hz

Ⓔ

NOTES ON SCHEMATIC DIAGRAM

- Resistor:
  To differentiate the units of resistors, such symbol K and M are used: the symbol K means 1000 ohm and the symbol M means 1000 kohm and the resistor without any symbol is ohm-type resistor. Besides, the one with "Fusible" is a fuse type.
- Capacitor:
  To indicate the unit of capacitor, a symbol P is used: this symbol P means micro-micro-farad and the unit of the capacitor without such a symbol is microfarad. As to elec-trolytic capacitor, the expression "capacitance/withstand voltage" is used.
  (CH), (TH), (RH), (UJ): Temperature compensation
- The indicated voltage in each section is the one measured by Digital Multimeter between such a section and the chassis with no signal given.
- Schematic diagram and Wiring Side of P.W.Board for this model are subject to change for improvement without prior notice.
- Parts marked with "⚠" ( ) are important for main-taining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and perfor-mance of the set.

Ⓓ

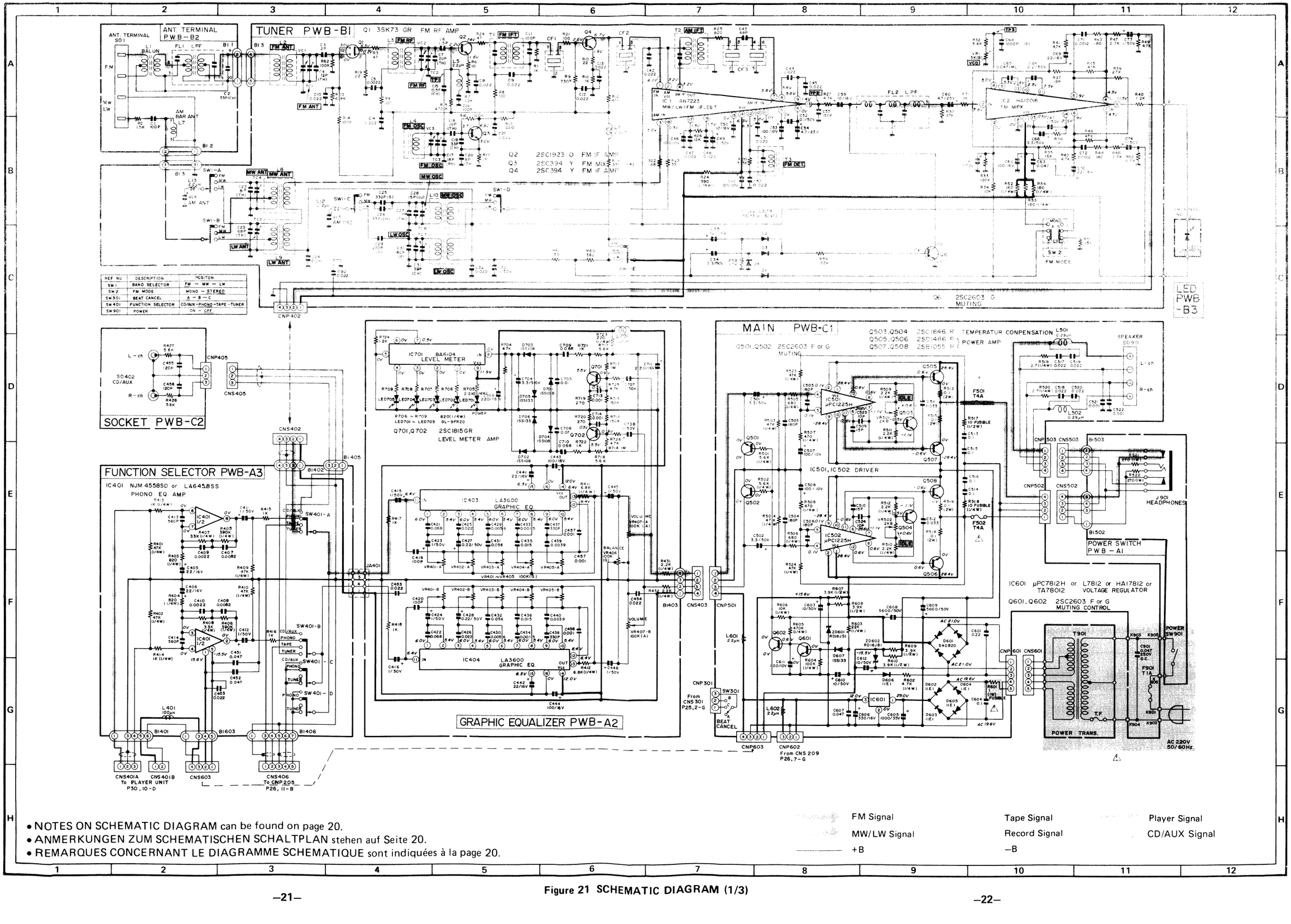
ANMERKUNGEN ZUM SCHEMATISCHEN SCHALTPLAN

- Widerstände:
  Um die Einheiten der Widerstände unter-scheiden zu können, werden Symbole wir K und M benutzt. Das Symbol K bedeutet 1000 Ohm und das Symbol M 1 000 Kilo- ohm; Bei Widerständen ohne Symbol handelt es sich um ohmsche Widerstände. Außerdem sind die mit "Fusi-ble" bezeichneten Widerstände Schmelzsicherungstypen.
- Kondensatoren:
  Zum Bezeichnen der Kondensatoreinheit wird das Symbol P benutzt; dieses Symbol P bedeutet Nanofard. Die Einheit eines Kondensators ohne Symbol ist Mikrofarad. Für Elektrolytkondensatoren wird die Be-zeichnung "Kapazität / Stehspannung" benutzt.
  (CH), (TH), (RH), (UJ): Temperaturkompensation
- Die in den einzelnen Teilen angegebenen Spannungen werden mit einem Digitalvielfachmeßgerät zwischen dem betreffen den Teil und dem Chassis ohne Signalzuleitung gemessen.
- Änderungen des schematischen Schaltplans und der Ver-drahtungsseite der Leiterplatte für dieses Modell im Sinne von Verbesserungen jederzeit vorbehalten.
- Die mit ⚠ ( ) bezeichneten Teile sind besonders wichtig für die Aufrechterhaltung der Sicherheit. Beim Wechseln dieser Teile sollten die vorgeschriebenen Teile immer verwendet werden, um sowohl die Sicherheit als auch die Leistung des Gerätes aufrechtzuerhalten.

Ⓕ

REMARQUES CONCERNANT LE DIAGRAMME SCHÉMATIQUE

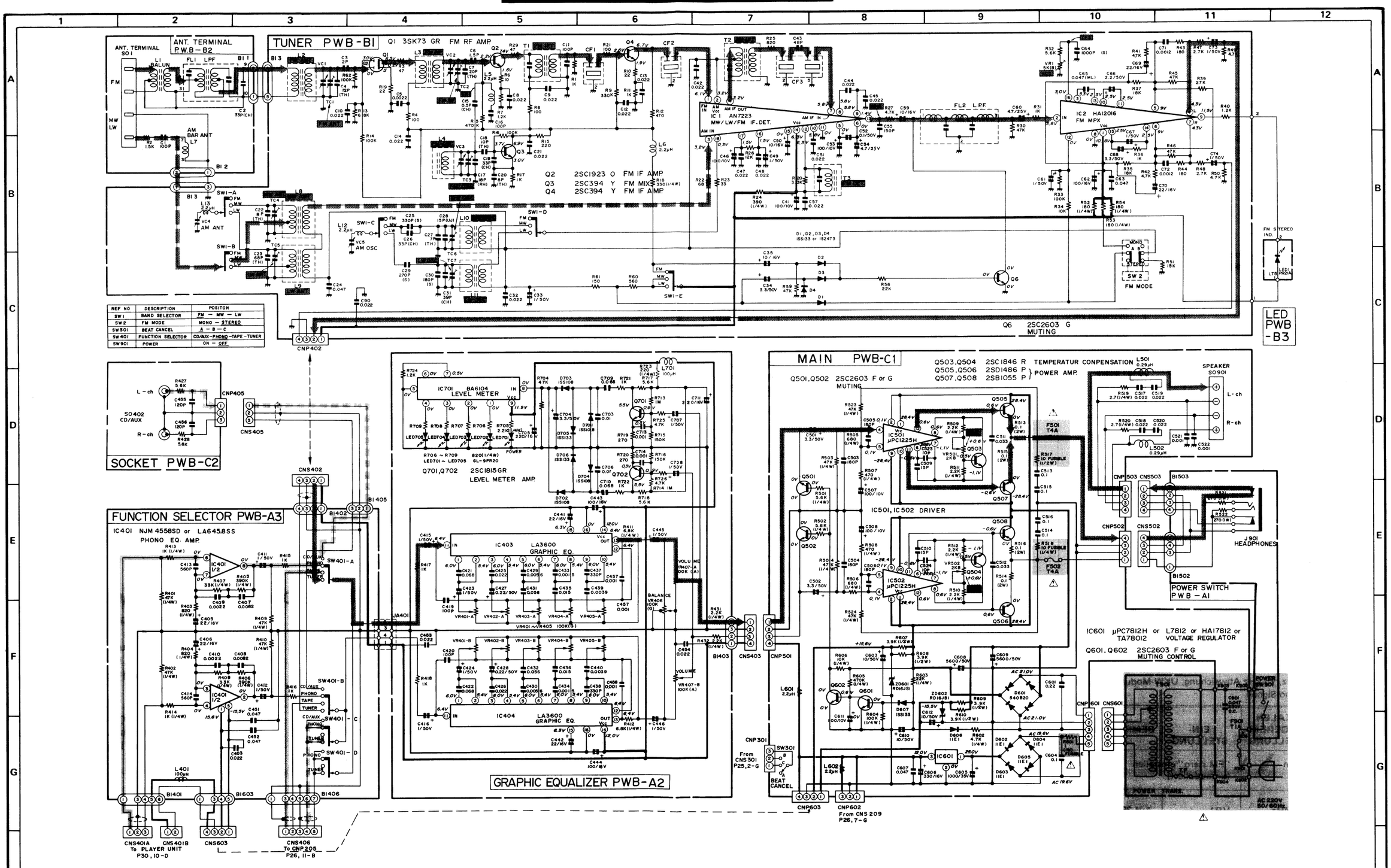
- Résistance:
  Pour différencier les unités de résistances, on utilise des symbole tels que K et M: le symbole K signifie 1000 ohms, le symbole M 1000 Kohms, et la résistance donnée sans symbole est une résistance de type ohm. En outre, celle qui est dotées de "Fusible" est de type à fusible.
- Condensateur:
  Pour indiquer l'unité de condensateur, on utilise le symbole P; ce symbole P signifie micro-microfarad, et l'unité de condensateur donnée sans ce symbole est le microfarad. En ce qui concerne le condensateur électrolytique, on utilise l'expression "tension de régime/capacité".
  (CH), (RH), (TH), (UJ): Compensation de température
- La tension indiquée dans chaque section est celle mesurée par un multimètre numérique entre la section en question et le châssis, en l'absence de tout signal.
- Le diagramme schématique et le côté câblage de la PMI de ce modèle sont sujets à modifications sans préavis pour l'amélioration de ce produit.
- Les pièces portant la marque ⚠ ( ) sont particulière-ment importantes pour le maintien de la sécurité. S'assurer de les remplacer par des pièces du numéro de pièce spécifié pour maintenir la sécurité et la performance de l'appareil.



REF NO	DESCRIPTION	POSITON
SW1	BAND SELECTOR	FM — MW — LW
SW2	FM MODE	MONO — STEREO
SW301	BEAT CANCEL	A — B — C
SW401	FUNCTION SELECTOR	CD/AUX-PHONO-TAPE-TUNER
SW901	POWER	ON — OFF

- NOTES ON SCHEMATIC DIAGRAM can be found on page 20.
- ANMERKUNGEN ZUM SCHEMATISCHEN SCHALTPLAN stehen auf Seite 20.
- REMARQUES CONCERNANT LE DIAGRAMME SCHEMATIQUE sont indiquées à la page 20.

Figure 21 SCHEMATIC DIAGRAM (1/3)



- NOTES ON SCHEMATIC DIAGRAM can be found on page 20.
- ANMERKUNGEN ZUM SCHEMATISCHEN SCHALTPLAN stehen auf Seite 20.
- REMARQUES CONCERNANT LE DIAGRAMME SCHEMATIQUE sont indiquées à la page 20.

Figure 21 SCHEMATIC DIAGRAM (1/3)

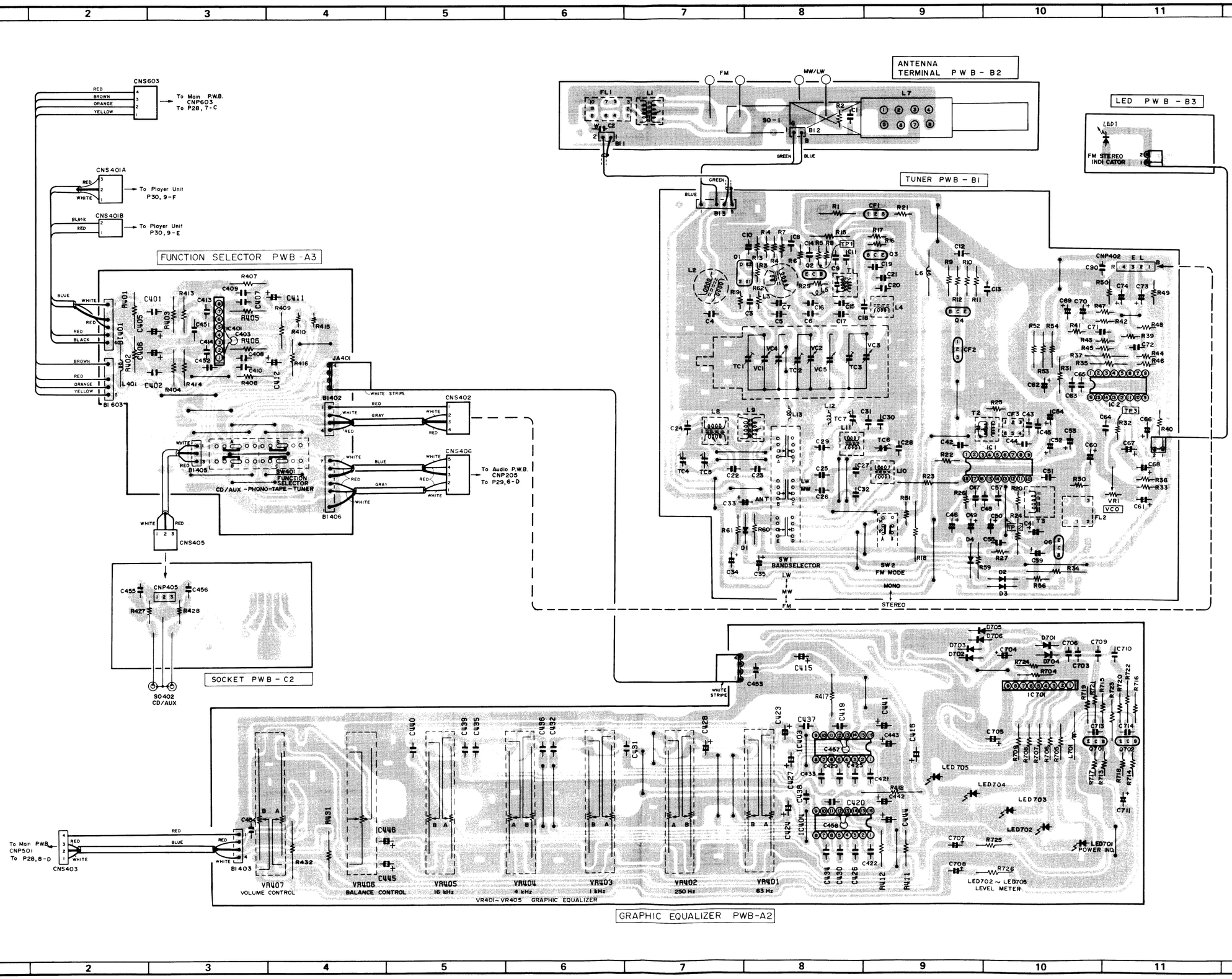
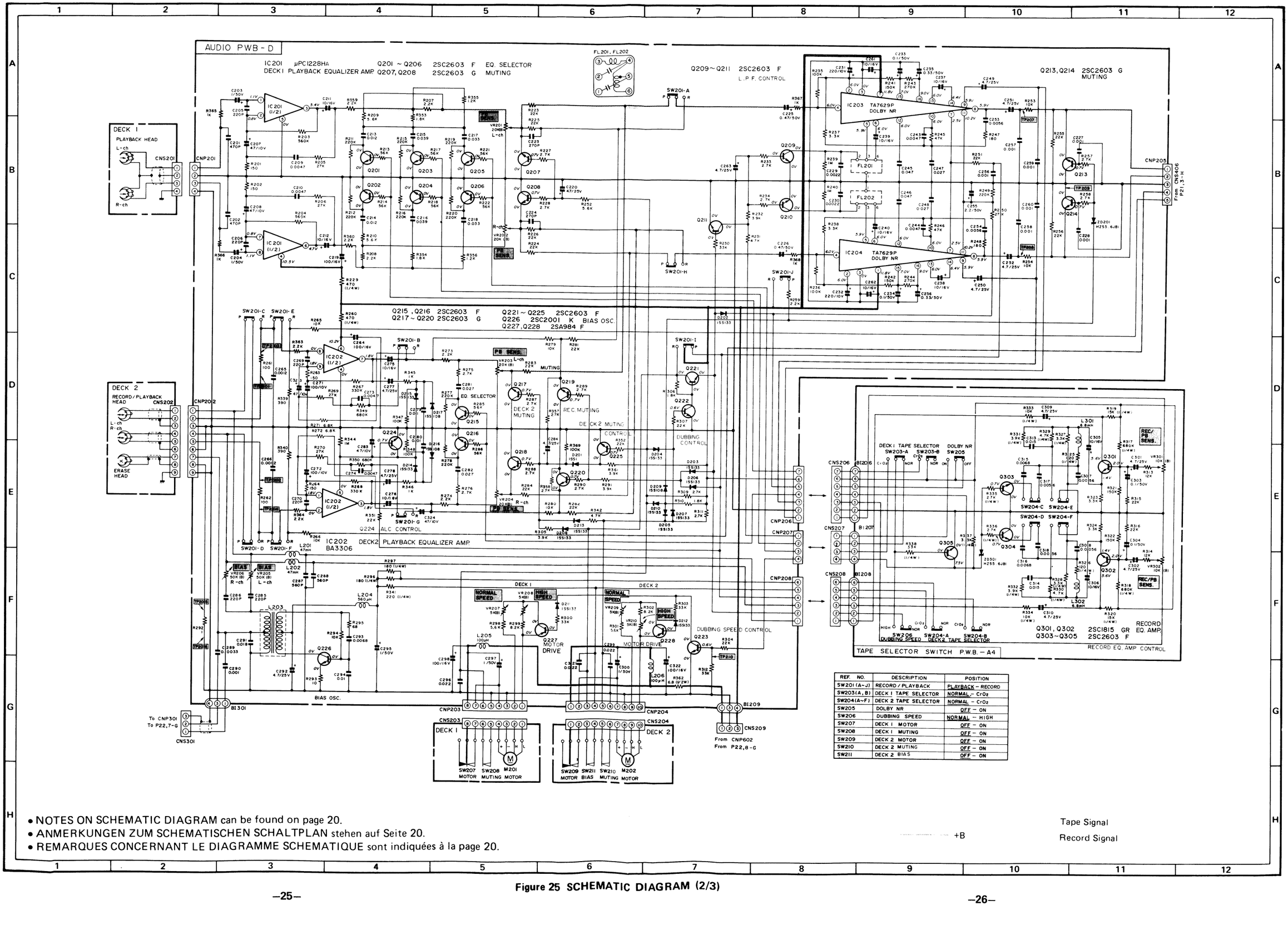


Figure 23 WIRING SIDE OF P.W. BOARD (1/3)

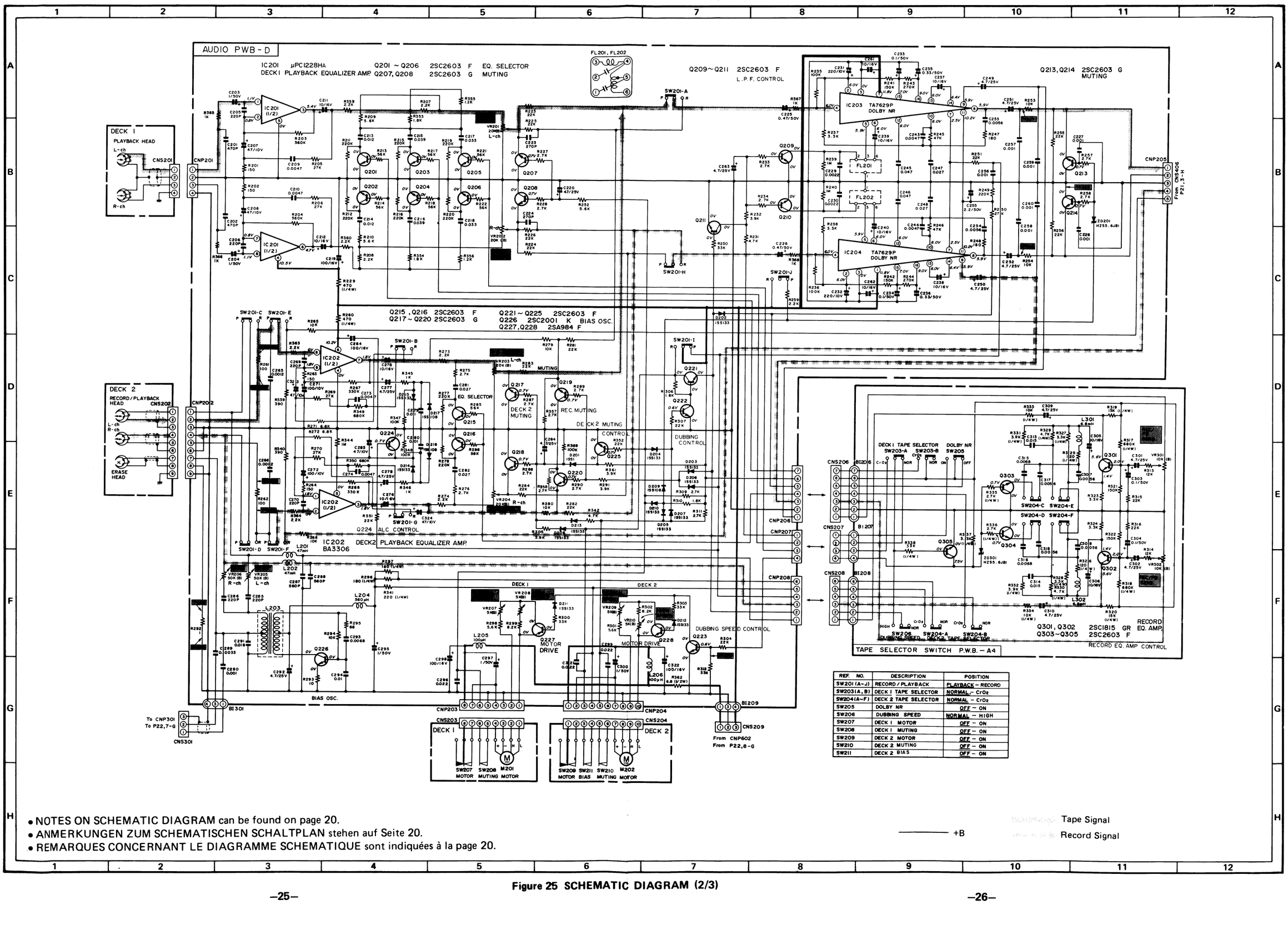


REF. NO.	DESCRIPTION	POSITION
SW201 (A-J)	RECORD / PLAYBACK	PLAYBACK – RECORD
SW203 (A, B)	DECK 1 TAPE SELECTOR	NORMAL – CrO2
SW204 (A-F)	DECK 2 TAPE SELECTOR	NORMAL – CrO2
SW205	DOLBY NR	OFF – ON
SW206	DUBBING SPEED	NORMAL – HIGH
SW207	DECK 1 MOTOR	OFF – ON
SW208	DECK 1 MUTING	OFF – ON
SW209	DECK 2 MOTOR	OFF – ON
SW210	DECK 2 MUTING	OFF – ON
SW211	DECK 2 BIAS	OFF – ON

- NOTES ON SCHEMATIC DIAGRAM can be found on page 20.
- ANMERKUNGEN ZUM SCHEMATISCHEN SCHALTPLAN stehen auf Seite 20.
- REMARQUES CONCERNANT LE DIAGRAMME SCHEMATIQUE sont indiquées à la page 20.

Tape Signal
Record Signal
+B

Figure 25 SCHEMATIC DIAGRAM (2/3)



REF. NO.	DESCRIPTION	POSITION
SW201(A~J)	RECORD / PLAYBACK	PLAYBACK ~ RECORD
SW203(A, B)	DECK 1 TAPE SELECTOR	NORMAL ~ CrO2
SW204(A~F)	DECK 2 TAPE SELECTOR	NORMAL ~ CrO2
SW205	DOLBY NR	OFF ~ ON
SW206	DUBBING SPEED	NORMAL ~ HIGH
SW207	DECK 1 MOTOR	OFF ~ ON
SW208	DECK 1 MUTING	OFF ~ ON
SW209	DECK 2 MOTOR	OFF ~ ON
SW210	DECK 2 MUTING	OFF ~ ON
SW211	DECK 2 BIAS	OFF ~ ON

- NOTES ON SCHEMATIC DIAGRAM can be found on page 20.
- ANMERKUNGEN ZUM SCHEMATISCHEN SCHALTPLAN stehen auf Seite 20.
- REMARQUES CONCERNANT LE DIAGRAMME SCHEMATIQUE sont indiquées à la page 20.

——— +B
Tape Signal
Record Signal

Figure 25 SCHEMATIC DIAGRAM (2/3)

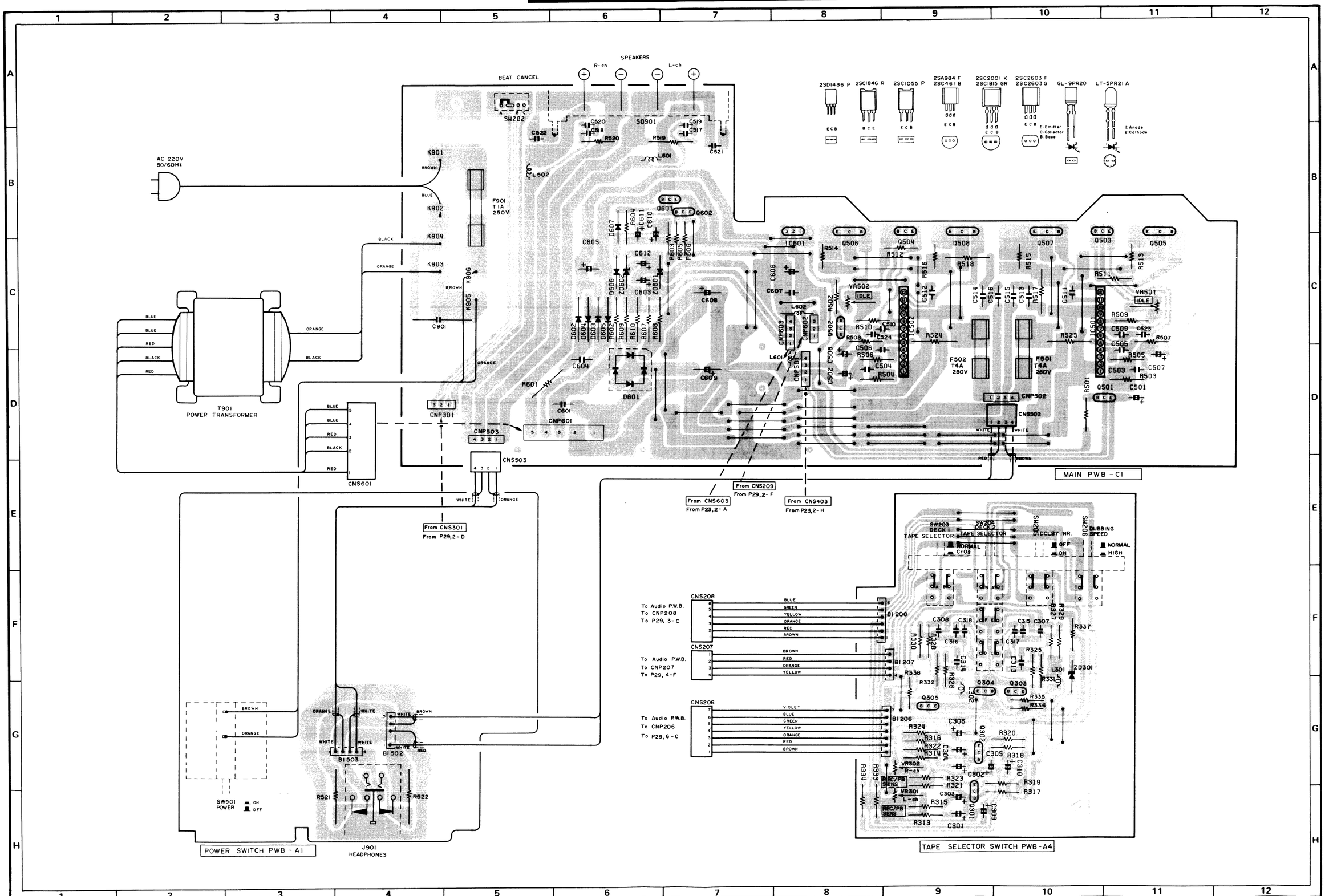
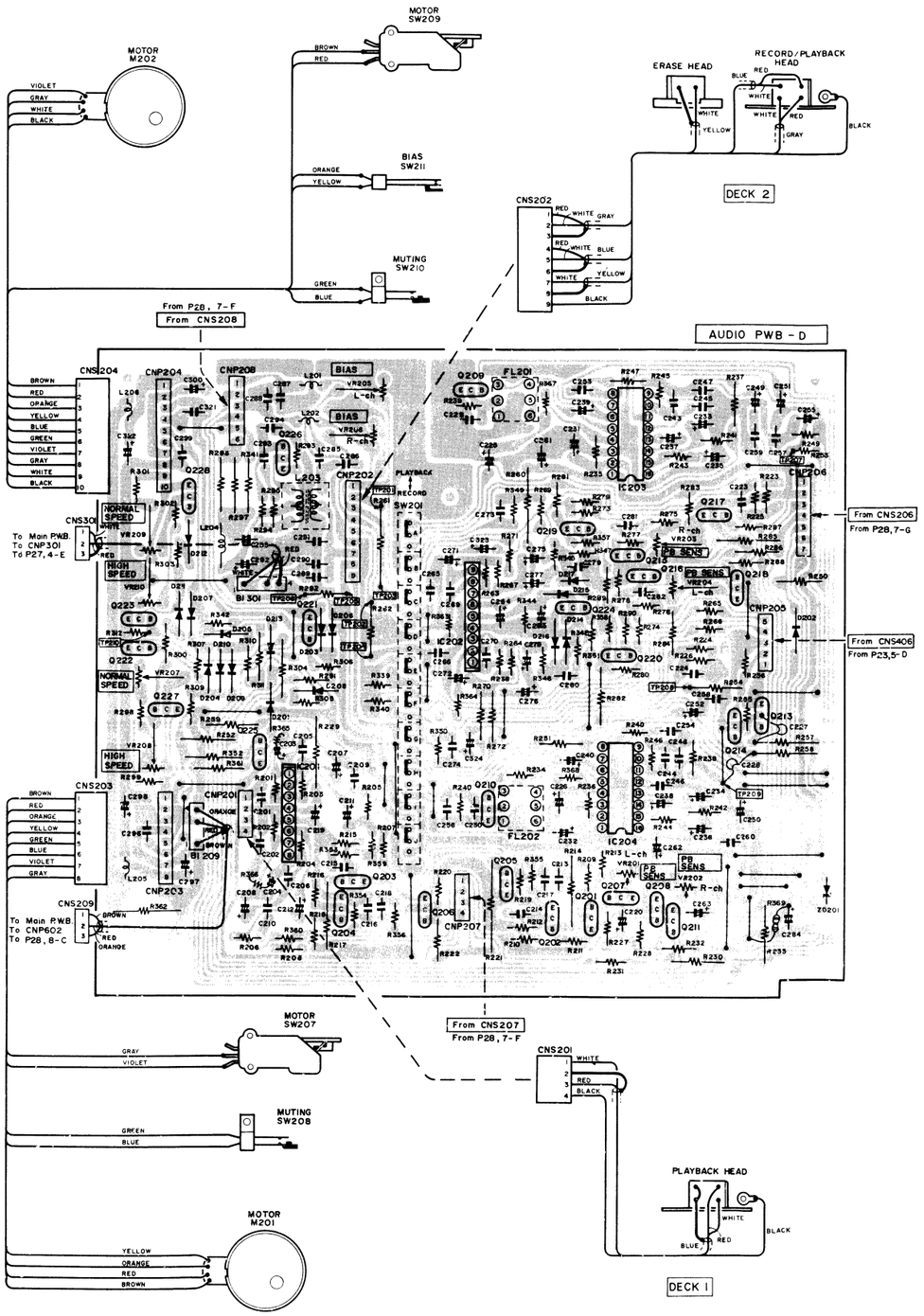
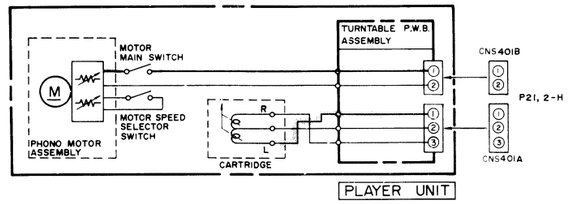
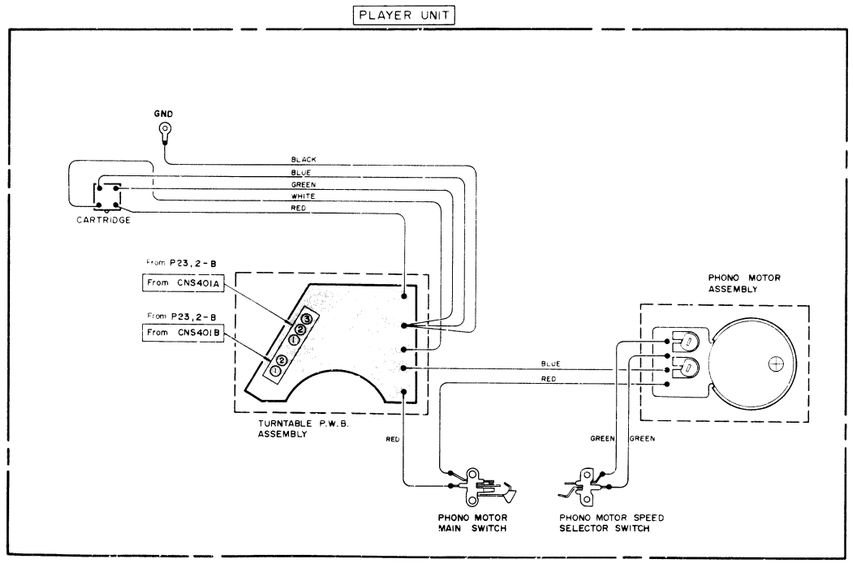


Figure 27 WIRING SIDE OF P.W. BOARD (2/3)





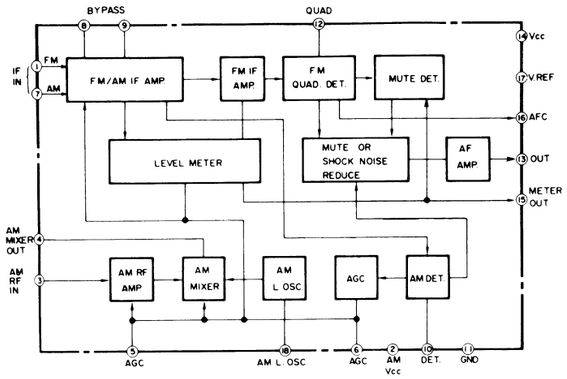


- NOTES ON SCHEMATIC DIAGRAM can be found on page 20.
- ANMERKUNGEN ZUM SCHEMATISCHEN SCHALTPLAN stehen auf Seite 20.
- REMARQUES CONCERNANT LE DIAGRAMME SCHEMATIQUE sont indiquées à la page 20.

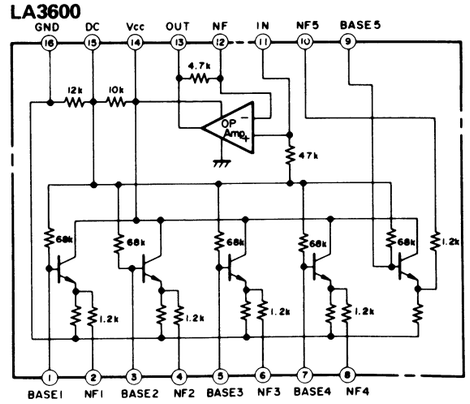
+B Player Signal

Figure 29 WIRING SIDE OF P.W. BOARD (3/3) AND SCHEMATIC DIAGRAM (3/3)

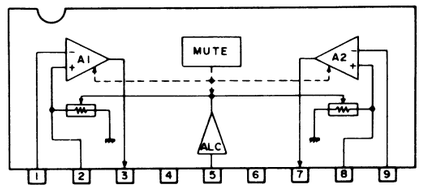
AN7223



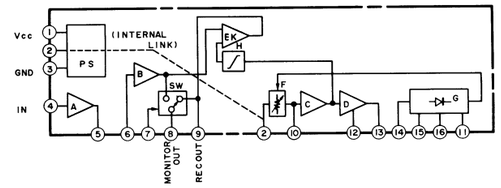
LA3600



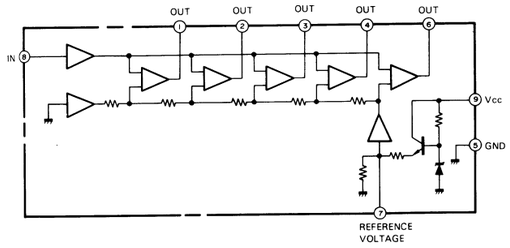
BA3306



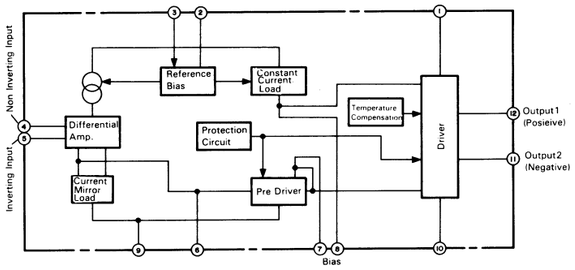
TA7629P



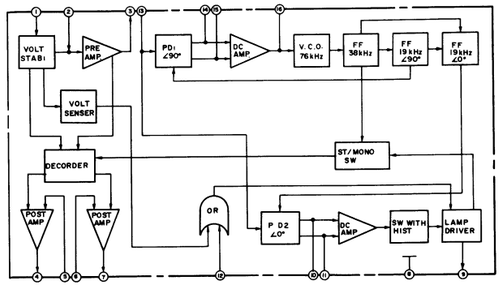
BA6104



μPC1225H



HA12016



μPC7812H, T78012AP, HA17812, L7812

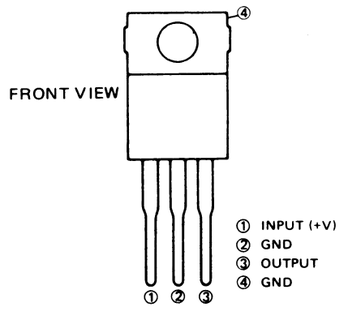


Figure 31 EQUIVALENT CIRCUIT (BLOCK DIAGRAM) OF IC

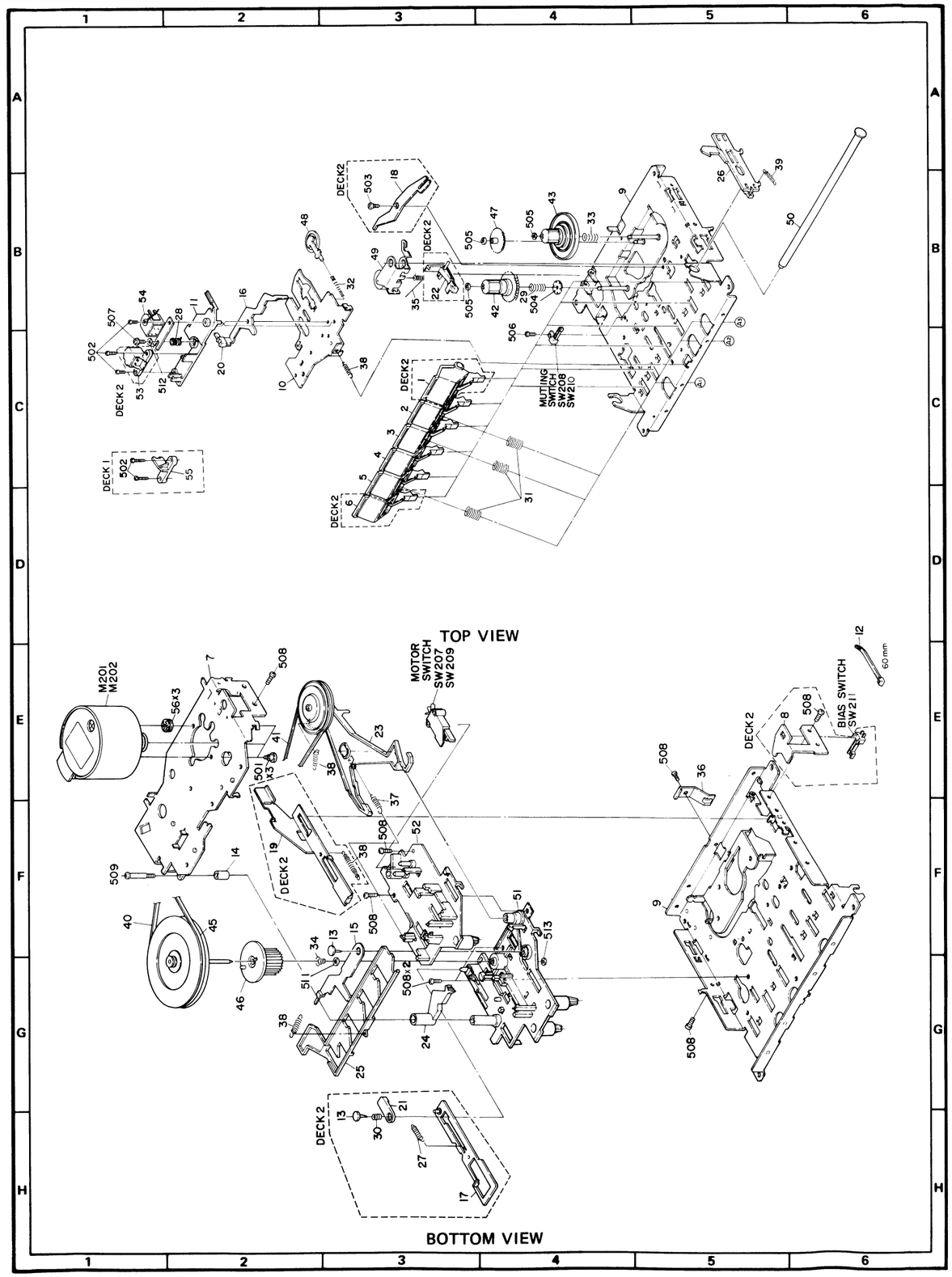


Figure 32 MECHANISM EXPLODED VIEW

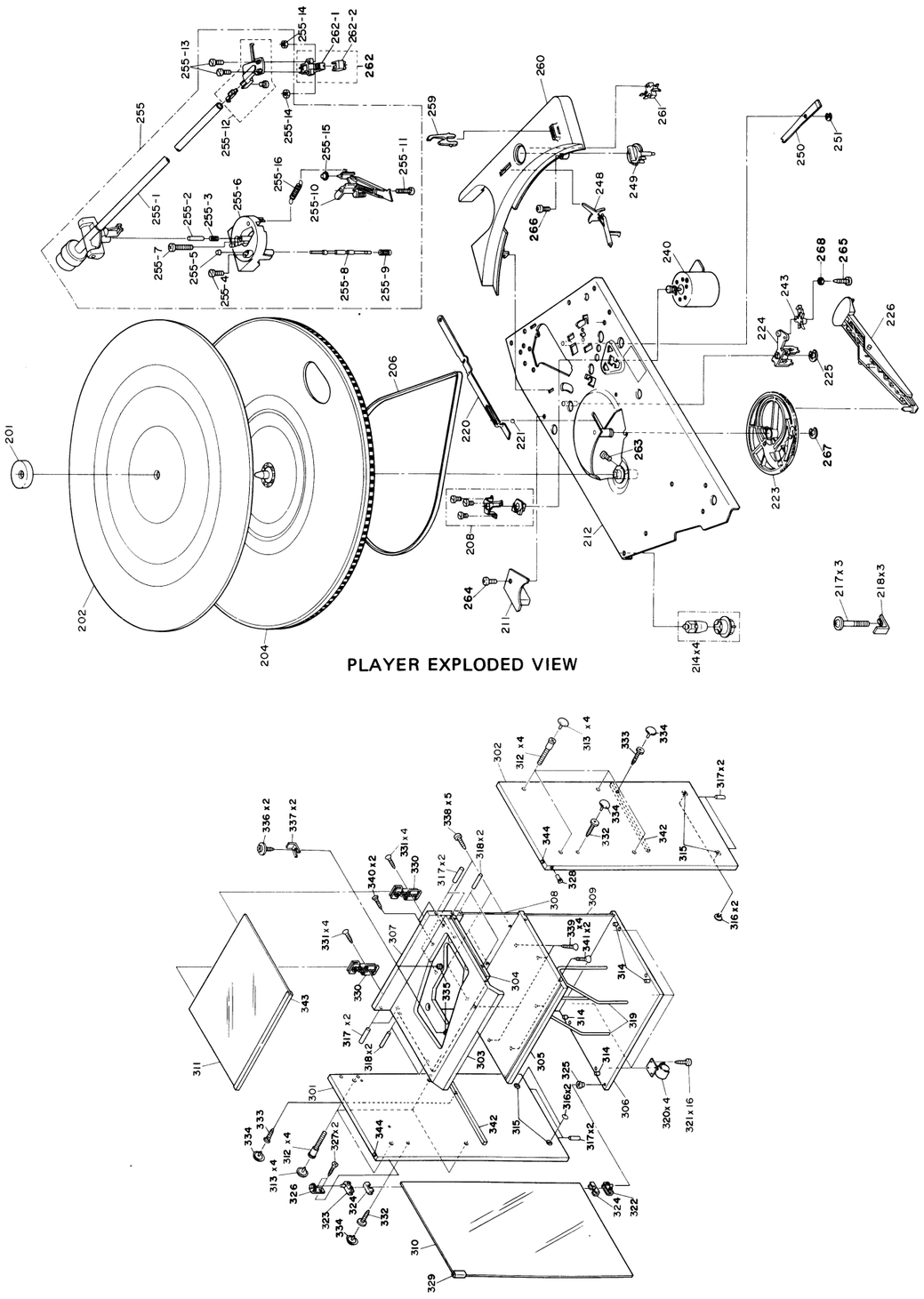


Figure 33 PLAYER/CABINET (RACK) EXPLODED VIEW

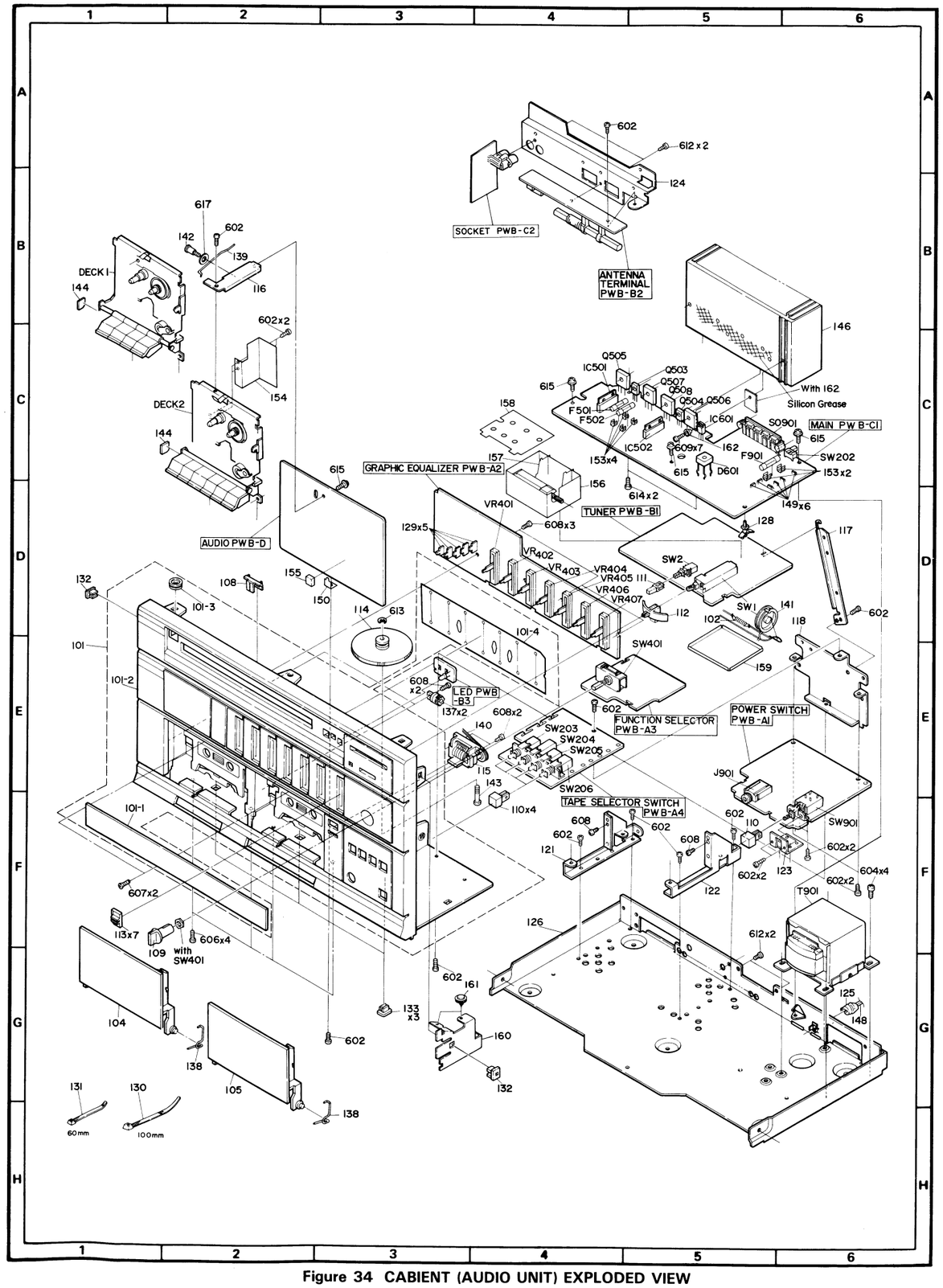


Figure 34 CABIENT (AUDIO UNIT) EXPLODED VIEW

Ⓔ

REPLACEMENT PARTS LIST

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following information.

1. MODEL NUMBER
2. REF. NO.
3. PART NO.
4. DESCRIPTION

NOTE:

Parts marked with "△" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

Ⓓ

ERSATZTEILLISTE

"BESTELLEN VON ERSATZTEILEN"

Um Ihren Auftrag schnell und richtig ausfuhren zu können, bitten wir um die folgenden Angaben.

1. MODELLNUMMER
2. REF. NR.
3. TEIL NR.
4. BESCHREIBUNG

ANMERKUNGEN:

Die mit △ bezeichneten Teile sind besonders wichtig für die Aufrechterhaltung der Sicherheit. Beim Wechseln dieser Teile sollten die vorgeschriebenen Teile immer verwendet werden, um sowohl die Sicherheit als auch die Leistung des Gerätes aufrechtzuerhalten.

Ⓕ

LISTE DES PIÈCES DE RECHANGE

"COMMENT COMMANDER DES PIÈCES DE RECHANGE"

Pour voir votre commande exécutée de manière rapide et correcte, veuillez fournir les renseignements suivants.

1. NUMÉRO DU MODÈLE
2. N° DE RÉFÉRENCE
3. N° DE LA PIÈCE
4. DESCRIPTION

NOTE:

Les pièces portant la marque △ sont particulièrement importantes pour le maintien de la securité. S'assurer de les remplacer par des pièces du numéro de pièce spécifié pour maintenir la sécurité et la performance de l'appareil.

REF.NO.	PART NO.	DESCRIPTION	CODE
INTEGRATED CIRCUITS			
IC1	VHiAN7223//-1	FM/AM IF, Det., AN7223	AK
IC2	VHiHA12016/-1	FM Multiplex, HA12016	AL
IC201	VHiUPC1228HA1	Deck 1, Playback Equalizer Amp., μPC1228HA	AE
IC202	VHiBA3306//-1	Deck 2, Playback Equalizer Amp., BA3306	AG
IC203,204	VHiTA7629P/-1	Dolby NR Circuit, TA7629P	AL
IC401	RH-iX1226AFZZ	Phono Equalizer Amp., NJM4558SD or LA6458SS	AE
IC403,404	VHiLA3600//-1	Graphic Equalizer, LA3600	AG
IC501,502	VHiUPC1225H-1	Driver, μPC1225H	AK
IC601	RH-iX1285AFZZ	Voltage Regulator, μPC7812H or T78012AP or HA17812 or L7812	AG
IC701	VHiBA6104//-1	LED Driver, BA6104	AF
TRANSISTORS			
Q1	VS3SK73-GR/-1	FET, Silicon, N-channel, 3SK73 GR	AF
Q2	VS2SC1923ō/-1	Silicon, NPN, 2SC1923 O	AC
Q3,4	VS2SC394-Y/-1	Silicon, NPN, 2SC394 Y	AC
Q6	VS2SC2603-G-1	Silicon, NPN, 2SC2603 G	AB
Q201~206	VS2SC2603-F-1	Silicon, NPN, 2SC2603 F	AB
Q207,208	VS2SC2603-G-1	Silicon, NPN, 2SC2603 G	AB
Q209~211	VS2SC2603-F-1	Silicon, NPN, 2SC2603 F	AB
Q213,214	VS2SC2603-G-1	Silicon, NPN, 2SC2603 G	AB
Q215,216	VS2SC2603-F-1	Silicon, NPN, 2SC2603 F	AB
Q217~220	VS2SC2603-G-1	Silicon, NPN, 2SC2603 G	AB
Q221~225	VS2SC2603-F-1	Silicon, NPN, 2SC2603 F	AB
Q226	VS2SC2001-K-1	Silicon, NPN, 2SC2001 K	AD
Q227,228	VS2SA984-F/-1	Silicon, PNP, 2SA984 F	AC
Q301,302	VS2SC1815GR-1	Silicon, NPN, 2SC1815 GR	AB
Q303~305	VS2SC2603-F-1	Silicon, NPN, 2SC2603 F	AB
Q501,502	VS2SC2603-G-1	Silicon, NPN, 2SC2603 G	AB
Q503,504	VS2SC1846R/-1	Silicon, NPN, 2SC1846 R	AD
Q505,506	VS2SD1486//4F	Silicon, NPN, 2SD1486 P	AH
Q507,508	VS2SB1055//4F	Silicon, PNP, 2SB1055 P	AH
Q601,602	VS2SC2603-G-1	Silicon, NPN, 2SC2603 G	AB
Q701,702	VS2SC1815GR-1	Silicon, NPN, 2SC1815 GR	AB

REF.NO.	PART NO.	DESCRIPTION	CODE
DIODES			
D1~4	VHD1SS133//-1	Silicon, 1SS133	AA
D201~206	VHD1SS133//-1	Silicon, 1SS133	AA
D207	VHD1SS108//-1	Silicon, 1SS108	AB
D208,209	VHD1SS133//-1	Silicon, 1SS133	AA
D210~215	VHD1SS133//-1	Silicon, 1SS133	AA
D216,217	VHD1SS108//-1	Silicon, 1SS108	AB
D601	VHDS4VB20//-1	Silicon, Bridge, S4VB20	AG
D602~606	VHD11E1TA2/-1	Silicon, 11E1	AB
D607	VHD1SS133//-1	Silicon, 1SS133	AA
D701~704	VHD1SS108//-1	Silicon, 1SS108	AB
D705,706	VHD1SS133//-1	Silicon, 1SS133	AA
LED1	VHPLT5PR21A-1	LED, Red, LT5PR21A	AB
LED701~704	VHPGL-9PR20-1	LED, Red, GL-9PR20	AB
ZD201,301	VHEHZS5R6JB11	Zener, 5.6V, HZS5.6JB1	AB
ZD601,602	VHERD160JS1-1	Zener, 16V, RD16JS1	AB
COILS			
L1	RCiLA0777AFZZ	FM Balun	AE
L2	RCiLA0746AFZZ	FM Antenna	AD
L3	RCiLR0384AFZZ	FM RF	AD
L4	RCiLB0631AFZZ	FM Oscillation	AD
L5	VP-CV2R2M0000	2.2 μH	AB
L6	VP-DH2R2M0000	2.2 μH	AB
L7	RCiLA0698AFZZ	AM Bar Antenna	AG
L8	RCiLA0703AFZZ	MW Antenna	AD
L9	RCiLA0622AFZZ	LW Antenna	AE
L10	RCiLB0623AFZZ	MW Oscillation	AC
L11	RCiLB0627AFZZ	LW Oscillation	AC
L12,13	VP-CV2R2M0000	2.2 μH	AB
L201	RCiLF0085AFZZ	47 mH, Bias Trap	AC
L202	RCiLF0085AFZZ	47 mH, Bias Trap	AC
L203	RCiLB0751AFZZ	Bias Oscillation	AG
L204	VP-DH561K0000	560 μH, Choke	AB
L205,206	RCiLZ0121AFZZ	100 μH, Noise Killer	AC
L301,302	RCiLZ0086AFZZ	6.8 mH, Rec. Equalizer	AC
L401	VP-DH101K0000	100 μH, Choke	AB
L501,502	RCiLZ0137AFZZ	0.29 μH	AA
L601	VP-CV2R2M0000	2.2 μH	AB
L602	VP-DH2R2M0000	2.2 μH	AB
L701	VP-DH101K0000	100 μH, Choke	AB

REF.NO.	PART NO.	DESCRIPTION	CODE
	TRANSFORMERS		
T1	RCiLi0322AFZZ	FM IF	AC
T2	RCiLi0293AFZZ	AM IF	AD
T3	RCiLD0080AFZZ	FM Detector	AD
⚠T901	RTRNP1244AFZZ	Power	BF
	FILTERS		
CF1,2	RFiLF0107AFZZ	FM IF, Ceramic	AC
CF3	RFiLA0074AFZZ	AM IF, 455 kHz	AE
FL1	RCiLZ0149AFZZ	Low Pass	AF
FL2	RFiLL0075AFZZ	Low Pass	AF
FL201	RCiLL0101AFZZ	Dolby Maltiplex	AG
FL202	RCiLL0101AFZZ	Dolby Maltiplex	AG
	CONTROLS		
TC4	RTō-H1065AFZZ	MW Antenna Trimmer	AD
TC5	RTō-H1072AFZZ	LW Antenna Trimmer	AC
TC6	RTō-H1065AFZZ	MW Oscillation Trimmer	AD
TC7	RTō-H1072AFZZ	LW Oscillation Trimmer	AC
VC1 ~5	RVC-W0056AFZZ	Variable Capacitors, Tuning with Trimmers: TC1; FM Antenna Trimmer TC2; FM RF Trimmer TC3; FM Oscillation Trimmer	AU
VR1	RVR-M0343AFZZ	5 kohms(B)	AB
VR201,202	RVR-M0240AFZZ	20 kohms(B)	AB
VR203,204	RVR-M0392AFZZ	20 kohms(B)	AB
VR205,206	RVR-M0394AFZZ	50 kohms (B)	AB
VR207 ~210	RVR-M0390AFZZ	5 kohms(B)	AB
VR301,302	RVR-M0391AFZZ	10 kohm (B)	AB
VR401 ~405	RVR-Q0176AFZZ	100 kohm (G)	AG
VR406	RVR-Q0166AFZZ	100 kohm (G)	AF
VR407	RVR-P0120AFZZ	100 kohm (A)	AF
VR501,502	RVR-M0405AFZZ	2 kohms (B)	AB
	ELECTROLYTIC CAPACITORS		
(All electrolytic capacitors are ±20% type.)			
C33	RC-EZA105AF1H	1 μF, 50V	AB
C34	RC-EZA335AF1H	3.3 μF, 50V	AB
C35	RC-EZA106AF1C	10 μF, 16V	AB
C41,46	RC-EZA107AF1A	100 μF, 10V	AB
C49	RC-EZA105AF1H	1 μF, 50V	AB
C50	RC-EZA106AF1C	10 μF, 16V	AB
C52	RC-EZA104AF1H	0.1 μF, 50V	AB
C53	RC-EZA107AF1A	100 μF, 10V	AB
C54	RC-EZA475AF1E	4.7 μF, 25V	AB
C59	RC-EZA106AF1C	10 μF, 16V	AB
C60	RC-EZA475AF1E	4.7 μF, 25V	AB
C61	RC-EZA105AF1H	1 μF 50V	AB
C62	RC-EZA107AF1C	100 μF, 16V	AB
C66	RC-EZA225AF1H	2.2 μF, 50V	AB
C67	RC-EZA105AF1H	1 μF, 50V	AB
C68	RC-EZA335AF1H	3.3 μF, 50V	AB
C69,70	RC-EZA226AF1C	22 μF, 16V	AG
C73,74	RC-EZA105AF1H	1 μF, 50V	AB
C203,204	VCEALU1HW105M	1 μF, 50V	AB
C207,208	RC-EZA476AF1A	47 μF, 10V	AB
C211,212	RC-EZA106AF1C	10 μF, 16V	AB
C219	RC-EZA107AF1C	100 μF, 16V	AB
C220	RC-EZA475AF1E	4.5 μF, 25V	AB
C225,226	RC-EZA474AF1H	0.47 μF, 50V	AB
C231,232	RC-EZA227AF1A	220 μF, 10V	AB
C233,234	RC-EZA104AF1H	0.1 μF, 50V	AB
C235 236	RC-EZA334AF1H	0.33 μF, 50V	AB
C237,238	RC-EZA106AF1C	10 μF, 16V	AB
C239,240	RC-EZA106AF1C	10 μF, 16V	AB
C249,250	RC-EZA475AF1E	4.7 μF, 25V	AB
C251,252	RC-EZA475AF1E	4.7 μF, 25V	AB
C255	RC-EZA225AF1H	2.2 μF, 50V	AB
C261,262	RC-EZA106AF1C	10 μF, 16V	AB
C263	RC-EZA475AF1E	4.7 μF, 25V	AB
C264	RC-EZA107AF1C	100 μF, 16V	AB
C267,268	VCEALA1HW105M	1 μF, 50V	AB
C271,272	RC-EZA107AF1A	100 μF, 10V	AB
C275,276	RC-EZA106AF1C	10 μF, 16V	AB
C277,278	RC-EZA475AF1E	4.7 μF, 25V	AB
C283	RC-EZA476AF1A	47 μF, 10V	AB
C284	RC-EZA475AF1E	4.7 μF, 25V	AB
C292	RC-EZA475AF1E	4.7 μF, 25V	AB
C295,297	RC-EZA105AF1H	1 μF, 50V	AB
C298	RC-EZA107AF1C	100 μF 16V	AB
C300	RC-EZA105AF1H	1 μF, 50V	AB
C301,302	RC-EZA475AF1E	4.7 μF, 25V	AB
C303,304	RC-EZA104AF1H	0.1 μF, 50V	AB
C305,306	RC-EZA106AF1C	10 μF, 16V	AB
C309,310	RC-EZA475AF1E	4.7 μF, 25V	AB
C322	RC-EZA107AF1C	100 μF, 16V	AB
C323,324	RC-EZA476AF1A	47 μF, 10V	AB
C405,406	RC-EZA226AF1C	22 μF, 16V	AG
C411,412	RC-EZA105AF1H	1 μF, 50V	AB
C415,416	RC-EZA105AF1H	1 μF, 50V	AB
C423,424	RC-EZA105AF1H	1 μF, 50V	AB
C427,428	RC-EZA224AF1H	0.22 μF, 50V	AB
C441,442	RC-EZA226AF1C	22 μF, 16V	AG
C443,444	RC-EZA476AF1C	47 μF, 16V	AB
C445,446	RC-EZA105AF1H	1 μF, 50V	AB
C501,502	RC-EZA335AF1H	3.3 μF, 50V	AB
C507,508	RC-EZA107AF1A	100 μF, 10V	AB
C603	RC-EZA106AF1H	10 μF, 50V	AB
C605	RC-EZW108AF1V	1000 μF, 35V	AF
C606	RC-EZV337AF1C	330 μF, 16V	AC
C608,609	RC-EZ1312AFZZ	5600 μF, 50V	AM
C610	RC-EZA106AF1H	10 μF, 50V	AB
C611	RC-EZA107AF1A	100 μF, 10V	AB
C612	RC-EZA106AF1H	10 μF, 50V	AB
C704	RC-EZA335AF1H	3.3 μF, 50V	AB
C705	RC-EZA227AF1C	220 μF, 16V	AB
C707,708	RC-EZA105AF1H	1 μF, 50V	AB
C711	RC-EZA227AF1C	220 μF, 16V	AB

CAPACITORS

There are two types of capacitors available and they can be identified from each other by reading their Part Numbers.

- Ceramic type capacitor;
  A symbol "C" or "K" is given at the 3rd digit of its Part Number like "VCC(or K)●●●●●●●J."
- Semiconductor type capacitor;
  A symbol "T" is given at the 3rd digit of its Part Number like "VCT●●●●●●●J."

The capacitance error of each capacitor is indicated by the symbol given at the 13th digit of the Part Number as follows: "J" (±5%), "K" (±10%), "M" (±20%), "N" (±30%), "C" (±0.25 pF), "D" (±0.5 pF), "Z" (+80−20%).

C1	VCCSPA1HL101J	100 pF, 50V	AA
C2	VCCCPU1HH330J	33 pF(CH), 50V	AA
C3	VCCSPA1HL2R0C	2 pF, 50V	AA
C4	VCCTPA1HH150J	15 pF(TH), 50V	AA
C5	VCTYPA1EX222K	0.0022 μF, 25V	AA
C6	VCCSPA1HL1R5C	1.5 pF, 50V	AA
C7	VCCTPA1HH200J	20 pF(TH), 50V	AA
C8,9,10	VCTYPA1EX223K	0.022 μF, 25V	AA
C11	VCCCPA1HL101J	100 pF, 50V	AA
C12,13,14	VCTYPA1EX223K	0.022 μF, 25V	AA
C15	VCCCPA1HHR50C	0.5 pF(CH), 50V	AA
C16	VCCCPA1HL101J	100 pF, 50V	AA
C17	VCCRPA1HH180J	18 pF(RH), 50V	AA

REF.NO.	PART NO.	DESCRIPTION	CODE
C18	VCCTPA1HH100J	10 pF(TH), 50V	AA
C19	VCCCPA1HH330J	33 pF(CH), 50V	AA
C20	VCCTPA1HH8R0D	8 pF(TH), 50V	AA
C21	VCTYPA1EX223K	0.022 μF, 25V	AA
C22	VCCTPA1HH8R0D	8 pF(TH), 50V	AA
C23	VCCTPA1HH680J	68 pF(TH), 50V	AA
C24	VCTYPA1EX473K	0.047 μF, 25V	AA
C25	VCQSMA1HL331J	330 pF, 50V, Styrol	AB
C26	VCCCPA1HH330J	33 pF(CH), 50V	AA
C27	VCCTPA1HH7R0J	7 pF(TH), 50V	AA
C28	VCCUPA1HJ150J	15 pF(UJ), 50V	AA
C29	VCQSMA1HL271J	270 pF, 50V, Styrol	AC
C30	VCQSMA1HL181J	180 pF, 50V, Styrol	AB
C31	VCCCPA1HH390J	39 pF(CH), 50V	AA
C32,42	VCTYPA1EX223K	0.022 μF, 25V	AA
C43	VCCSPA1HL680J	68 pF, 50V	AA
C44,45	VCTYPA1EX223K	0.022 μF, 25V	AA
C47,48,51	VCTYPA1EX223K	0.022 μF, 25V	AA
C55	VCCSPA1HL151J	150 pF, 50V	AA
C57	VCTYPA1EX223K	0.022 μF, 25V	AA
C63	VCTYPA1EX473K	0.047 μF, 25V	AA
C64	VCQSMA1HL102J	0.001 μF, 50V, Styrol	AB
C65	VCQYKA1HM473K	0.047 μF, 50V, Mylar	AA
C71,72	VCTYPA1EX152K	0.0015 μF, 25V	AA
C90	VCTYPA1EX223K	0.022 μF, 25V	AA
C201,202	VCCSPA1HL471J	470 pF, 50V	AA
C205,206	VCTYPA1EX102J	0.001 μF, 25V	AA
C209,210	VCTYPA1EX472J	0.0047 μF, 25V	AA
C213,214	VCTYPA1EX123J	0.012 μF, 25V	AA
C215,216	VCTYPA1EX393J	0.039 μF, 25V	AB
C217,218	VCTYPA1EX333J	0.033 μF, 25V	AB
C223,224	VCCSPA1HL271J	270 pF, 50V	AA
C227,228	VCKYPU1HB102K	0.001 μF, 50V	AA
C229,230	VCTYPA1EX222J	0.0022 μF, 25V	AA
C243,244	VCTYPA1EX472J	0.0047 μF, 25V	AA
C245,246	VCTYPA1EX473J	0.047 μF, 25V	AB
C247,248	VCTYPA1EX273J	0.027 μF, 25V	AB
C253,254	VCTYPA1EX562J	0.0056 μF, 25V	AA
C256,257	VCKYPA1HB102K	0.001 μF, 50V	AA
C258,259	VCKYPA1HB102K	0.001 μF, 50V	AA
C260	VCKYPA1HB102K	0.001 μF, 50V	AA
C265,266	VCTYPA1EX122J	0.0012 μF, 25V	AA
C269,270	VCCSPA1HL221J	220 pF, 50V	AA
C273,274	VCTYPA1EX472J	0.0047 μF, 25V	AA
C279,280	VCTYPA1EX103J	0.01 μF, 25V	AA
C281,282	VCTYPA1EX273J	0.027 μF, 25V	AB
C285,286	VCCSPA1HL221J	220 pF, 50V	AA
C287,288	VCCSPA1HL561J	560 pF 50V	AA
C289	VCQYKA1HM332J	0.0033 μF, 50V, Mylar	AB
C290	VCQYKA1HM102J	0.001 μF, 50V, Mylar	AB
C291	VCQPKV2AA183J	0.018 μF, 100V, Polypropylene	AB
C293	VCTYPA1EX682J	0.0068 μF, 25V	AA
C294	VCTYPA1EX103J	0.01 μF, 25V	AA
C296,299	VCKZPA1HF223Z	0.022 μF, 50V	AA
C307,308	VCTYPA1EX562J	0.0056 μF, 25V	AA
C313,314	VCTYPA1EX153J	0.015 μF, 25V	AA
C315,316	VCTYPA1EX682J	0.0068 μF, 25V	AA
C317,318	VCTYPA1EX562J	0.0056 μF, 25V	AA
C321	VCKZPA1HF223Z	0.022 μF, 50V	AA
C403	VCTYPU1EX223K	0.022 μF, 25V	AA
C407,408	VCTYPA1EX822J	0.0082 μF, 25V	AA
C409,410	VCTYPA1EX222J	0.0022 μF, 25V	AA
C413,414	VCCSPA1HL561K	560 pF, 50V	AA
C419,420	VCCSPA1HL101J	100 pF, 50V	AA
C421,422	VCTYPA1EX683K	0.068 μF, 25V	AB
C425,426	VCTYPA1EX223K	0.022 μF, 25V	AA
C429,430	VCTYPA1EX562K	0.0056 μF, 25V	AA
C431,432	VCTYPA1EX563K	0.056 μF, 25V	AA
C433,434	VCTYPA1EX152K	0.0015 μF, 25V	AA
C435,436	VCTYPA1EX153K	0.015 μF, 25V	AA
C437,438	VCCSPA1HL331J	330 pF, 50V	AA
C439,440	VCTYPA1EX392K	0.0039 μF, 25V	AB
C452	VCTYPA1EX473K	0.047 μF, 25V	AA
C453,454	VCTYPA1EX223K	0.022 μF, 25V	AA
C455,456	VCCSPA1HL121K	120 pF, 50V	AA
C457,458	VCKYPU1HB102K	0.001 μF, 50V	AA
C503,504	VCCSPA1HL181K	180 pF, 50V	AA
C505,506	VCCSPA1HL181K	180 pF, 50V	AA
C509,510	VCCSPA1HL150J	15 pF, 50V	AA
C511,512	VCQYKA1HM333K	0.033 μF, 50V, Mylar	AB
C513,514	VCQYKU1HM104K	0.1 μF, 50V, Mylar	AB
C515,516	VCQYKU1HM104K	0.1 μF, 50V, Mylar	AB
C517~520	VCTYPA1EX223K	0.022 μF, 25V	AA
C521,522	VCTYPA1EX102K	0.001 μF, 25V	AA
C523,524	VCCSPU1HL100J	10 pF, 50V	AA
C601	VCQYKU2AM224K	0.022 μF, 100V, Mylar	AD
C604	VCQYKU1HM104K	0.1 μF, 50V, Mylar	AB
C607	VCTYPA1EX473K	0.047 μF, 25V	AA
C703,706	VCTYPA1EX103K	0.01 μF, 25V	AA
C709,710	VCQYKA1HM683K	0.068 μF, 50V, Mylar	AB
C713,714	VCKYPA1HB102K	0.001 μF, 50V	AA
⚠C901	RC-FZ082SAFZZ	0.047 μF, AC250V	AF

RESISTORS

(Unless otherwise specified, resistors are ±5%, carbon type)

R1	VRD-ST2CD102J	1 kohm, 1/6W	AA
R2	VRD-ST2CD152J	1.5 kohms, 1/6W	AA
R3	VRD-ST2CD470J	47 ohms, 1/6W	AA
R4	VRD-ST2CD101J	100 ohm, 1/6W	AA
R5	VRD-ST2CD474J	470 kohms, 1/6W	AA
R6	VRD-ST2CD100J	10 ohm, 1/6W	AA
R7	VRD-ST2CD122J	1.2 kohms, 1/6W	AA
R8	VRD-ST2CD101J	100 ohm, 1/6W	AA
R9	VRD-ST2CD334J	330 kohms, 1/6W	AA
R10	VRD-ST2CD220J	22 ohms, 1/6W	AA
R11	VRD-ST2CD102J	1 kohm, 1/6W	AA
R12	VRD-ST2CD471J	470 ohms, 1/6W	AA
R13	VRD-ST2CD683J	68 kohms, 1/6W	AA
R14	VRD-ST2CD104J	100 kohm, 1/6W	AA
R15	VRD-ST2CD221J	220 ohms, 1/6W	AA
R16	VRD-ST2CD104J	100 kohm, 1/6W	AA
R17	VRD-ST2CD102J	1 kohm, 1/6W	AA
R18	VRD-ST2EE331J	330 ohms, 1/4W	AA
R19	VRD-ST2CD220J	22 ohms, 1/6W	AA
R20	VRD-ST2CD332J	3.3 kohms, 1/6W	AA
R21	VRD-ST2CD101J	100 ohm, 1/6W	AA
R22	VRD-ST2CD680J	68 ohms, 1/6W	AA
R23	VRD-ST2CD330J	33 ohms, 1/6W	AA
R24	VRD-ST2EE391J	390 ohms, 1/4W	AA
R25	VRD-ST2CD821J	820 ohms, 1/6W	AA
R26	VRD-ST2CD123J	12 kohms, 1/6W	AA
R27	VRD-ST2CD472J	4.7 kohms, 1/6W	AA
R29	VRD-ST2CD470J	47 ohms, 1/6W	AA
R30	VRD-ST2CD473J	47 kohms, 1/6W	AA
R31	VRD-ST2CD102J	1 kohm, 1/6W	AA
R32	VRD-ST2CD562J	5.6 kohms, 1/6W	AA
R33	VRD-ST2CD104J	100 kohm, 1/6W	AA
R34	VRD-ST2CD103J	10 kohm, 1/6W	AA
R35	VRD-ST2CD183J	18 kohms, 1/6W	AA
R36	VRD-ST2CD102J	1 kohm, 1/6W	AA
R37	VRD-ST2CD183J	18 kohms, 1/6W	AA
R39	VRD-ST2CD273J	27 kohms, 1/6W	AA
R40	VRD-ST2CD122J	1.2 kohms, 1/6W	AA
R41,42	VRD-ST2CD472J	4.7 kohms, 1/6W	AA
R43,44	VRD-ST2CD181J	180 ohms, 1/6W	AA
R45,46	VRD-ST2CD473J	47 kohms, 1/6W	AA
R47,48	VRD-ST2CD272J	2.7 kohms, 1/6W	AA
R49,50	VRD-ST2CD472J	4.7 kohms, 1/6W	AA

SYSTEM-W7H

REF.NO.	PART NO.	DESCRIPTION	CODE
R51	VRD-ST2CD153J	15 kohms, 1/6W	AA
R52,53	VRD-ST2EE181J	180 ohms, 1/4W	AA
R54	VRD-ST2EE181J	180 ohms, 1/4W	AA
R56	VRD-ST2CD223J	22 kohms, 1/6W	AA
R59	VRD-ST2CD473J	47 kohms, 1/6W	AA
R60	VRD-ST2CD561J	560 ohms, 1/6W	AA
R61	VRD-ST2CD151J	150 ohms, 1/6W	AA
R62	VRD-ST2CD104J	100 kohm, 1/6W	AA
R201,202	VRD-ST2CD151J	150 ohms, 1/6W	AA
R203,204	VRD-ST2CD564J	560 kohms, 1/6W	AA
R205,206	VRD-ST2CD273J	27 kohms, 1/6W	AA
R207,208	VRD-ST2CD222J	2.2 kohms, 1/6W	AA
R209,210	VRD-ST2CD562J	5.6 kohms, 1/6W	AA
R211,212	VRD-ST2CD224J	220 kohms, 1/6W	AA
R213,214	VRD-ST2CD563J	56 kohms, 1/6W	AA
R215,216	VRD-ST2CD224J	220 kohms, 1/6W	AA
R217,218	VRD-ST2CD563J	56 kohms, 1/6W	AA
R219,220	VRD-ST2CD224J	220 kohms, 1/6W	AA
R221,222	VRD-ST2CD563J	56 kohms, 1/6W	AA
R223,224	VRD-ST2CD223J	22 kohms, 1/6 W	AA
R225,226	VRD-ST2CD223J	22 kohms, 1/6W	AA
R227,228	VRD-ST2CD272J	2.7 kohms, 1/6W	AA
R229	VRD-ST2EE471J	470 ohms, 1/4W	AA
R230	VRD-ST2CD333J	33 kohms, 1/6W	AA
R231	VRD-ST2CD472J	4.7 kohms, 1/6W	AA
R232	VRD-ST2CD392J	3.9 kohms, 1/6W	AA
R233,234	VRD-ST2CD272J	2.7 kohms, 1/6W	AA
R235,236	VRD-ST2CD104J	100 kohm, 1/6W	AA
R237,238	VRD-ST2CD332J	3.3 kohms, 1/6W	AA
R239,240	VRD-ST2CD105J	1 Mohm, 1/6W	AA
R241,242	VRD-ST2CD154J	150 kohms, 1/6W	AA
R243,244	VRD-ST2CD274J	270 kohms, 1/6W	AA
R245,246	VRD-ST2CD473J	47 kohms, 1/6W	AA
R247,248	VRD-ST2CD181J	180 ohms, 1/6W	AA
R249	VRD-ST2CD224J	220 kohms, 1/6W	AA
R250	VRD-ST2CD273J	27 kohms, 1/6W	AA
R251	VRD-ST2CD223J	22 kohms, 1/6W	AA
R252	VRD-ST2CD562J	5.6 kohms, 1/6W	AA
R253,254	VRD-ST2CD103J	10 kohm, 1/6W	AA
R255,256	VRD-ST2CD223J	22 kohms, 1/6W	AA
R257,258	VRD-ST2CD272J	2.7 kohms, 1/6W	AA
R259	VRD-ST2CD222J	2.2 kohms, 1/6W	AA
R260	VRD-ST2EE471J	470 ohms, 1/4W	AA
R261,262	VRD-ST2CD101J	100 ohm, 1/6W	AA
R263,264	VRD-ST2CD151J	150 ohms, 1/6W	AA
R265,266	VRD-ST2CD103J	10 kohm, 1/6W	AA
R267,268	VRD-ST2CD334J	330 kohms, 1/6W	AA
R269,270	VRD-ST2CD273J	27 kohms, 1/6W	AA
R271,272	VRD-ST2CD682J	6.8 kohms, 1/6W	AA
R273,274	VRD-ST2CD222J	2.2 kohms, 1/6W	AA
R275,276	VRD-ST2CD272J	2.7 kohms, 1/6W	AA
R277,278	VRD-ST2CD224J	220 kohms, 1/6W	AA
R279,280	VRD-ST2CD103J	10 kohm, 1/6W	AA
R281,282	VRD-ST2CD223J	22 kohms, 1/6W	AA
R283,284	VRD-ST2CD223J	22 kohms, 1/6W	AA
R285,286	VRD-ST2CD563J	56 kohms, 1/6W	AA
R287,288	VRD-ST2CD272J	2.7 kohms, 1/6W	AA
R289,290	VRD-ST2CD272J	2.7 kohms, 1/6W	AA
R291	VRD-ST2CD392J	3.9 kohms, 1/6W	AA
R292	VRD-ST2CD1R0J	1 ohm, 1/6W	AA
R293	VRD-ST2CD100J	10 ohm, 1/6W	AA
R294	VRD-ST2CD103J	10 kohm, 1/6W	AA
R295	VRD-ST2CD680J	68 ohms, 1/6W	AA
R296,297	VRD-ST2EE181J	180 ohms, 1/4W	AA
R298	VRD-ST2CD562J	5.6 kohms, 1/6W	AA
R299	VRD-ST2CD822J	8.2 kohms, 1/6W	AA
R300	VRD-ST2CD333J	33 kohms, 1/6W	AA
R301	VRD-ST2CD562J	5.6 kohms, 1/6W	AA
R302	VRD-ST2CD822J	8.2 kohms, 1/6W	AA
R303	VRD-ST2CD333J	33 kohms, 1/6W	AA
R304	VRD-ST2CD223J	22 kohms, 1/6W	AA
R305	VRD-ST2CD392J	3.9 kohms, 1/6W	AA
R306	VRD-ST2CD182J	1.8 kohms, 1/6W	AA
R307	VRD-ST2CD223J	22 kohms, 1/6W	AA
R309	VRD-ST2CD272J	2.7 kohms, 1/6W	AA
R310	VRD-ST2CD182J	1.8 kohms, 1/6W	AA
R311	VRD-ST2CD272J	2.7 kohms, 1/6W	AA
R312	VRD-ST2CD333J	33 kohms, 1/6W	AA
R313,314	VRD-ST2CD123J	12 kohms, 1/6W	AA
R315,316	VRD-ST2CD223J	22 kohms, 1/6W	AA
R317,318	VRD-ST2EE684J	680 kohms, 1/4W	AA
R319,320	VRD-ST2EE153J	15 kohms, 1/4W	AA
R321,322	VRD-ST2CD154J	150 kohms, 1/6W	AA
R323,324	VRD-ST2CD332J	3.3 kohms, 1/6W	AA
R325,326	VRD-ST2EE121J	120 ohms, 1/4W	AA
R327,328	VRD-ST2EE332J	3.3 kohms, 1/4W	AA
R329,330	VRD-ST2EE472J	4.7 kohms, 1/4W	AA
R331,332	VRD-ST2EE392J	3.9 kohms, 1/4W	AA
R333,334	VRD-ST2EE103J	10 kohm, 1/4W	AA
R335,336	VRD-ST2EE272J	2.7 kohms, 1/4W	AA
R337,338	VRD-ST2EE332J	3.3 kohms, 1/4W	AA
R339,340	VRD-ST2CD391J	390 ohms, 1/6W	AA
R341	VRD-ST2EE221J	220 ohms, 1/4W	AA
R342	VRD-ST2CD472J	4.7 kohms, 1/6W	AA
R344	VRD-ST2CD105J	1 Mohm, 1/6W	AA
R345,346	VRD-ST2CD332J	3.3 kohms, 1/6W	AA
R347,348	VRD-ST2CD104J	100 kohm, 1/6W	AA
R349,350	VRD-ST2CD684J	680 kohms, 1/6W	AA
R351 352	VRD-ST2CD223J	22 kohms, 1/6W	AA
R353,354	VRD-ST2CD182J	1.8 kohms, 1/6W	AA
R355,356	VRD-ST2CD122J	1.2 kohms, 1/6W	AA
R357,358	VRD-ST2CD332J	3.3 kohms, 1/6W	AA
R359,360	VRD-ST2CD222J	2.2 kohms, 1/6W	AA
R361	VRD-ST2CD392J	3.9 kohms, 1/6W	AA
R362	VRD-ST2HD1R2J	1.2 ohms, 1/2W	AA
R363,364	VRD-ST2CD222J	2.2 kohms, 1/6W	AA
R365,366	VRD-ST2CD102J	1 kohm, 1/6W	AA
R367,368	VRD-ST2CD102J	1 kohm, 1/6W	AA
R369	VRD-ST2CD104J	100 kohm, 1/6W	AA
R401,402	VRD-ST2EE473J	47 kohms, 1/4W	AA
R403,404	VRD-ST2EE821J	820 ohms, 1/4W	AA
R405,406	VRD-ST2EE394J	390 kohms, 1/4W	AA
R407,408	VRD-ST2EE333J	33 kohms, 1/4W	AA
R409	VRD-ST2EE473J	47 kohms, 1/4W	AA
R410	VRD-ST2CD473J	47 kohms, 1/6W	AA
R411,412	VRD-ST2EE682J	6.8 kohms, 1/4W	AA
R413,414	VRD-ST2EE102J	1 kohm, 1/4W	AA
R415,416	VRD-ST2CD102J	1 kohm, 1/6W	AA
R417,418	VRD-ST2CD102J	1 kohm, 1/6W	AA
R427,428	VRD-ST2CD562J	5.6 kohms, 1/6W	AA
R431,432	VRD-ST2EE222J	2.2 kohms, 1/4W	AA
R501,502	VRD-ST2EE562J	5.6 kohms, 1/4W	AA
R503,504	VRD-ST2EE473J	47 kohms, 1/4W	AA
R505,506	VRD-ST2EE681J	680 ohms, 1/4W	AA
R507,508	VRD-ST2EE391J	390 ohms, 1/4W	AA
R509,510	VRD-ST2EE222J	2.2 kohms, 1/4W	AA
R511,512	VRD-ST2EE222J	2.2 kohms, 1/4W	AA
R513	RR-FZ1007AFZZ	0.1 ohm, 2W, Metal Oxide Film	AB
R514	RR-FZ1007AFZZ	0.1 ohm, 2W, Metal Oxide Film	AB
R515	RR-FZ1007AFZZ	0.1 ohm, 2W, Metal Oxide Film	AB
R516	RR-FZ1007AFZZ	0.1 ohm, 2W, Metal Oxide Film	AB
⚠ R517,518	VRG-ST2HC100J	10 ohm, 1/2W, Fusible	AA
R519,520	VRD-ST2EE2R7J	2.7 ohms, 1/4W	AA
R521,522	VRS-PU3AB271J	270 ohms, 1W, Metal Oxide Film	AA
R523,524	VRD-ST2EE473J	47 kohms, 1/4W	AA

REF.NO.	PART NO.	DESCRIPTION	CODE
⚠R601	VRG-SB3AA1R0J	1 ohm, 1W, Fusible	AC
R602	VRD-ST2EE472J	4.7 kohms, 1/4W	AA
R603	VRD-ST2EE223J	22 kohms, 1/4W	AA
R604	VRD-ST2EE104J	100 kohm, 1/4W	AA
R605	VRD-ST2EE474J	470 kohms, 1/4W	AA
R606	VRD-ST2EE103J	10 kohm, 1/4W	AA
R607,608	VRD-ST2HD392J	3 9 kohms, 1/2W	AA
R609,610	VRD-ST2HD392J	3.9 kohms, 1/2W	AA
R704	VRD-ST2CD473J	47 kohms, 1/6W	AA
R705	VRD-ST2EE222J	2.2 kohms, 1/4W	AA
R706,707	VRD-ST2EE821J	820 ohms, 1/4W	AA
R708,709	VRD-ST2EE821J	820 ohms, 1/4W	AA
R713,714	VRD-ST2CD105J	1 Mohm, 1/6W	AA
R715,716	VRD-ST2CD154J	150 kohms, 1/6W	AA
R717,718	VRD-ST2CD562J	5.6 kohms, 1/6W	AA
R719,720	VRD-ST2CD271J	270 ohms, 1/6W	AA
R721,722	VRD-ST2CD102J	1 kohm, 1/6W	AA
R723	VRD-ST2EE221J	220 ohms, 1/4W	AA
R724	VRD-ST2CD391J	390 ohms, 1/6W	AA
R725,726	VRD-ST2CD472J	4.7 kohms, 1/6W	AA

CIRCUIT PARTS

BI1/2/3	QCNW-3543AFZZ	Connector Assembly, 2-2-4Pin	AF
BI206	QCNW-3599AFZZ	Connector Assembly, 7-7Pin	AF
BI207	QCNW-3601AFZZ	Connector Assembly, 4-4Pin	AD
BI208	QCNW-3600AFZZ	Connector Assembly, 6-6Pin	AE
BI209	QCNW-3595AFZZ	Connector Assembly, 4-3Pin	AD
BI301	QCNW-3597AFZZ	Connector Assembly, 4-3Pin	AE
BI401	QCNW-3063AFZZ	Connector Assembly, 6-3-2Pin	AG
BI402	QCNW-3596AFZZ	Connector Assembly, 4-4Pin	AF
BI403	QCNW-3065AFZZ	Connector Assembly, 4-4Pin	AF
BI405	QCNWN0203AFZZ	Connector Assembly, 3-3Pin	AD
BI406	QCNW-3598AFZZ	Connector Assembly, 7-5Pin	AG
BI502	QCNW-3066AFZZ	Connector Assembly, 5-4Pin	AG
BI503	QCNW-3069AFZZ	Connector Assembly, 4-4Pin	AF
BI603	QCNW-3064AFZZ	Connector Assembly, 5-4Pin	AE
CNS201	QCNW-3091AFZZ	Connector Assembly, 4Pin	AE
CNS202	QCNW-3092AFZZ	Connector Assembly, 9Pin	AH
CNS203	QCNW-3055AFZZ	Connector Assembly, 8Pin	AE
CNS204	QCNW-3056AFZZ	Connector Assembly, 10Pin	AF
CNS206	————	Part of REF.NO.BI206	—
CNS207	————	Part of REF.NO.BI207	—
CNS208	————	Part of REF.NO.BI208	—
CNS209	————	Part of REF.NO.BI209	—
CNS301	————	Part of REF.NO.BI301	—
CNS401	————	Part of REF.NO.BI401	—
CNS402	————	Part of REF.NO.BI402	—
CNS403	————	Part of REF.NO.BI403	—
CNS405	————	Part of REF.NO.BI405	—
CNS406	————	Part of REF.NO.BI406	—
CNS502	————	Part of REF.NO.BI502	—
CNS503	————	Part of REF.NO.BI503	—
CNS601	————	Part of REF.NO.T901	—
CNS603	————	Part of REF.NO.BI603	—
CNP201	QCNCM585DAFZZ	Plug, 4Pin	AB
CNP202	QCNCM590JAFZZ	Plug, 9Pin	AC
CNP203	QCNCM589HAFZZ	Plug, 8Pin	AB
CNP204	QCNCM591KAFZZ	Plug, 10Pin	AC
CNP205	QCNCM586EAFZZ	Plug, 5Pin	AB
CNP206	QCNCM588GAFZZ	Plug, 7Pin	AB
CNP207	QCNCM585DAFZZ	Plug, 4Pin	AB
CNP208	QCNCM587FAFZZ	Plug, 6Pin	AB
CNP301	QCNCM136CAFZZ	Plug, 3Pin	AB
CNP402	QCNCM233DAFZZ	Plug, 4Pin	AC
CNP405	QCNCM136CAFZZ	Plug, 3Pin	AB
CNP501	QCNCM233DAFZZ	Plug, 4Pin	AC
CNP502	QCNCM233DAFZZ	Plug, 4Pin	AC
CNP503	QCNCM233DAFZZ	Plug, 4Pin	AC
CNP601	QCNCM643EAFZZ	Plug, 5Pin	AC
CNP602	QCNCM136CAFZZ	Plug, 3Pin	AB
CNP603	QCNCM233DAFZZ	Plug, 4Pin	AC
⚠F501,502	QFS-C402GAFNi	Fuse, T4A/250V	AD
⚠F901	QFS-C102GAFNi	Fuse, T1A/250V	AD
J901	QJAKJ0119AFZZ	Jack, Headphones	AF
M201	RMŌTV0195AF05	Motor, Deck 1, with Pulley and Washer	AU
M202	RMŌTV0195AF05	Motor, Deck 2, with Pulley and Washer	AU
SO1	QSŌCD2497AFZZ	Terminal, Antenna	AF
SO402	QSŌCJ0299AFZZ	Socket, CD/AUX	AC
SO901	QTANZ0472AFZZ	Terminal, Speakers	AF
SW1	QSW-B0205AFZZ	Switch, Slide Type	AM
SW2	QSW-P0507AFZZ	Switch, Push Type	AE
SW201(A~J)	QSW-S0466AFZZ	Switch, Slide Type	AH
SW202	QSW-S0267AFZZ	Switch, Slide Type	AD
SW203~206	QSW-P0602AFZZ	Switch, Push Type	AQ
SW207	QSW-F0136AFZZ	Switch, Skelton Type	AD
SW208	QSW-F0203AFZZ	Switch, Leaf Type	AC
SW209	QSW-F0136AFZZ	Switch, Skelton Type	AD
SW210	QSW-F0203AFZZ	Switch, Leaf Type	AC
SW211	QSW-F0197AFZZ	Switch, Leaf Type	AC
SW401	QSW-R0208AFZZ	Switch, Slide Type	AM
⚠SW901	QSW-P9168AFZZ	Switch, Push Type	AF

MECHANICAL PARTS

1	JKNBR0455AFSC	Button, Pause (Deck 2)	AD
2	JKNBR0456AFSC	Button, Stop	AD
3	JKNBR0457AFSC	Button, Fast-Forward	AD
4	JKNBR0458AFSC	Button, Play	AD
5	JKNBR0459AFSC	Button, Rewind	AD
6	JKNBR0460AFSC	Button, Record (Deck 2)	AD
7	LANGF0864AFZZ	Bracket, Flywheel	AE
8	LANGF0910AFFW	Bracket, Switch (Deck 2)	AC
9	LCHSM0535AFZZ	Main Chassis	—
10	LCHSS0204AFFW	Plate, Head	AD
11	LDAiH0063AF00	Head Base	AB
12	LHLDW1075AFZZ	Nylon Band, 60mm	AA
13	LRTNP0058AFZZ	Retaining Ring	AA
14	LSLVM0178AFFD	Sleeve, Arm	AC
15	MLEVF1637AFFW	Lever, Eject	AB
16	MLEVF1638AFFW	Lever, Auto-Stop	AB
17	MLEVF1737AFZZ	Lever, Pause (Deck 2)	AC
18	MLEVF1738AFFW	Lever, Play Release (Deck 2)	AA
19	MLEVF1739AFFW	Lever, Record (Deck 2)	AB
20	MLEVP0433AFZZ	Chip, Sensor	AA
21	MLEVP0502AFZZ	Lever, Pause Lock	AB
22	MLEVP0527AF00	Lever, Erase Prevention (Deck 2)	AA
23	MLEVP0602AFZZ	Lever, Fast-Forward/Rewind	AC
24	MLEVP0539AF00	Release Lever, Arm Lock	AB
25	MLEVP0541AF00	Lever, Release	AB
26	MLEVP0580AF00	Lever, Cassette Holder Lock	AB
27	MSPRC0455AFFJ	Spring, Lever Return (Deck 2)	AA
28	MSPRC0456AFFJ	Spring, Azimuth	AA
29	MSPRC0457AFFJ	Spring, Back Tention	AA
30	MSPRC0458AFFJ	Spring, Pause Lock Lever (Deck 2)	AA
31	MSPRC0467AFFJ	Spring, Button	AA
32	MSPRC0468AFFJ	Spring, Idler	AA
33	MSPRC0489AFFJ	Spring, Back Tention	AA
34	MSPRC0497AFFJ	Spring, Flywheel	AA
35	MSPRD0570AFFJ	Spring, Pinch Roller	AA
36	MSPRP0370AFFW	Plate Spring, Cassette Press	AA
37	MSPRT1076AFFJ	Spring, Fast-Forward/Rewind	AA
38	MSPRT1077AFFJ	Spring, Lock Lever	AA
39	MSPRT1078AFFJ	Spring, Arm Lock Release Lever	AA
40	NBLTH0103AFZZ	Belt, Flywheel	AC
41	NBLTK0290AF00	Belt, Fast-Forward/Rewind	AB
42	NDAiR0186AF00	Supply Turntable	AB
43	NDAiR0187AFZZ	Take-up Turntable	AE
45	NFLYC0131AFZZ	Flywheel	AH
46	NGERH0144AF00	Gear, Flywheel	AB
47	NGERH0149AF00	Gear, Fast-Forward	AB
48	N DR-0089AFZZ	Idler, Playback	AD
49	NRoLY0065AFZZ	Pinch Roller Assembly	AE
50	NSFTT0308AFFD	Shaft, Button	AC
51	PGiDM0120AFZZ	Lever Guide (Right)	AE
52	PGiDM0125AF00	Lever Guide (Left)	AB
53	RHEDA0125AFZZ	Head, Erase (Deck 2)	AH
54	RHEDF0090AFZZ	Playback Head (Deck 1)	AM
54	RHEDH0135AFZZ	Head, Record/Playback (Deck 2)	AM
55	MLEVP0482AFZZ	Head, Dummy (Deck 1)	AB
56	LBSHZ0086AFZZ	Rubber, Motor	AA
501	LX-BZ0451AFFD	Screw, ϕ2 × 6mm	AA
502	LX-HZ0142AFFD	Screw, ϕ2 × 9mm	AA
503	LX-HZ0151AFFD	Screw, ϕ4 × 6mm (Deck 2)	AB
504	LX-WZ1076AF00	Washer, Supply Turn Table	AA
505	LX-WZ1086AFZZ	Stop Washer, ϕ1.5 × ϕ3.5 × 0.5mm	AA
506	XBPSD16P04000	Screw, ϕ1.6 × 4mm	AA
507	XBPSD20W08000	Screw, ϕ2 × 8mm	AA
508	XHPSD26P04000	Screw, ϕ2.6 × 4mm	AA
509	XHPSD26P26000	Screw, ϕ2.6 × 26mm	AA
511	XWHJZ23-05044	Washer, ϕ2.3 × ϕ4.4 × 0.5mm	AA
512	XWHSD21-05065	Washer, ϕ2.1 × ϕ6.5 × 0.5mm	AA
513	XWHJZ21-05040	Washer, ϕ2.1 ×, ϕ4 × 0.5mm	AA
514	XWHJZ19-05050	Washer, ϕ1.9 × ϕ5 × 0.5mm	AA

CABINET PARTS (AUDIO UNIT)

101	CPNLC1783AF03	Front Panel Assembly	BB
101-1	HDECP0451AFSA	Plate, Dial	AH
101-2	————	Front Panel	—
101-3	NPLYD0068AFZZ	Pulley	AB
101-4	PFLT-0652AFZZ	Felt, Graphic Equalizer	AB
102	CSPRT1193AF01	Dial Cord Assembly	AC
104	GFTAC1567AFSB	Cassette Holder, Deck 1	AL
105	GFTAC1568AFSB	Cassette Holder, Deck 2	AL
108	HSSND0355AFSA	Dial Pointer	AE
109	JKNBK0245AFSB	Knob, Function Selector	AC
110	JKNBM0428AFSB	Button, Power, Tape Selector, Dolby NR, Dubbing Speed	AB
111	JKNBM0437AFSE	Button, FM Mode	AB
112	JKNBM0535AFSC	Knob, Band Selector	AB
113	JKNBP0230AFSE	Knob, Graphic Equalizer, Balance, Volume	AB
114	JKNBZ0315AFSH	Knob, Tuning	AE
115	KCŌUB0176AFZZ	Tape Counter	AG
116	LANGF0929AFZZ	Bracket, Record/Playback Selector Spring	AC
117	LANGF0963AFZZ	Bracket, Tuner P.W.B. Retaining	AD
118	LANGF0964AFZZ	Bracket, Power Switch P.W.B.	AG
121	LANGK0479AFZZ	Bracket, Heat Sink, Left	AF
122	LANGK0480AFZZ	Bracket, Heat Sink, Right	AF
123	LANGK0481AFZZ	Bracket, Power Switch	AC
124	LANGQ1001AFZZ	Bracket, Terminal/Socket	AF
125	LBSHC0004AGZZ	Bushing, AC Power Supply Cord	AB
126	LCHSM0580AFZZ	Main Chassis	—
128	LHLDF1353AFZZ	Holder, Main P.W.B.	AB
129	LHLDP1093AFZZ	Holder, LED	AA
130	LHLDW1068AFZZ	Nylon Band, 100mm	AA
131	LHLDW1075AFZZ	Nylon Band, 60mm	AA
132	LHLDZ1283AFZZ	Holder, Black	AB
133	LHLDZ1284AFZZ	Holder, White	AB
137	MLiFP0040AFZZ	Damper	AC
138	MSPRD0654AFFJ	Spring, Cassette Holder Up	AA
139	MSPRD0753AFFJ	Spring, Record/Playback Selector	AC
140	NBLTK0335AFZZ	Belt, Tape Counter	AC
141	NDRM-0183AFZZ	Drum	AE
142	NPLYC0101AFFD	Screw, Record/Playback Selector Spring	AA
143	NSFTZ0145AFZZ	Shaft, Tuning	AC
144	PFLT-0659AFZZ	Felt, Cassette Mechanism	AA
146	PRDAR0453AFFW	Heat Sink	AY
⚠148	QACCV0001AGZZ	AC Power Supply Cord	AL
⚠149	QLUGP0165AFZZ	Lug	AA
150	QTANN0154AFZZ	Bracket, Audio P.W.Board	AB
⚠153	QFSHD2051AFZZ	Holder, Fuse	AA
154	PSLDM3394AFZZ	Shield Plate, Deck 2 Motor	AC
155	PSPAG0137AF00	Spacer, Audio P.W.B.	AA
156	PSLDM3312AFZZ	Shield Plate, Tuner	AD
157	PSLDM3313AFZZ	Shield Plate, Tuner	AB
158	PSLDM3314AFZZ	Shield Plate, Tuner	AB
159	PSLDM3317AFZZ	Shield Plate, Tuner	AC
160	LANGH0164AFZZ	Bracket, Pulley	AE
161	NPLYD0054AFZZ	Pulley	AB
162	PSPAZ0219AFZZ	Spacer, Transistor	AA
602	XHBSD30P06000	Screw, ϕ3 × 6mm	AA
604	XHBSD40P08000	Screw, ϕ4 × 8mm	AA
606	XHBS330P08000	Screw, ϕ3 × 8mm, Red	AA
607	XHSSF30P10000	Screw, ϕ3 × 10mm	AA
608	XJBSD30P08000	Screw, ϕ3 × 8mm	AA
609	XJBSD30P10000	Screw, ϕ3 × 10mm	AA
612	XJBSF30P08000	Screw, ϕ3 × 8mm	AA
613	XRESJ30-06000	Ring, "E" Type, ϕ3 × 0.6mm	AA
614	XJBSF30P14000	Screw, ϕ3 × 14mm	AA
615	LX-HZ0087AFFD	Screw, ϕ3 × 8mm	AA
617	XWHFZ50-10140	Fiber Washer, ϕ5 × ϕ14 × 1mm	AA

ACCESSORIES PARTS

	QANTW0064AFZZ	FM External Antenna	AG
	SSAKA0024AFZZ	Polyethylene Bag, Accessory	AA
	TiNSLO184AFZZ	Operation Manual	AC

Note:
When ordering the parts to be used in the player, cabinet, speaker, and/or accessories, pleaseconsult Sharp dealers listed below.

SHARP ELECTRONICS (EUROPE) GMBH

Sonninstraße3 · 2000 Hamburg 1 West Germany
Phone: 0 40-23 77 51 Telex: 2 161 867 HEEG D

PLAYER PARTS

201	SP85-220212	Adaptor	AC
202	SP85-277940	Mat	AW
204	SP85-278299	Turntable	BD
206	SP85-272489	Belt	AM
208	SP85-271780	Motor Fixing Parts Assembly	AH
211	SP85-276447	Turntable P.W.B. Assembly	AH
212	SP85-275344	Base Plate	AY
214	SP85-273466	Leg Assembly	AE
217	SP85-272110	Screw, Transportation, Player Unit	AB

REF.NO.	PART NO.	DESCRIPTION	CODE
218	SP85-272111	Bracket, Transportation, Player Unit	AB
220	SP85-272074	Lever, Cut-Off	AH
221	SP85-209358	Steel Ball	AB
223	SP85-273390	Wheel, Curve	AM
224	SP85-270585	Bracket, Bearing	AC
225	SP85-210147	Ring, "E" Type	AB
226	SP85-273391	Lever, Main	AE
240	SP85-273393	Phono Motor Assembly	BD
243	SP85-242862	Switch, Skeleton Type	AH
248	SP85-272082	Lever, Cue	AB
249	SP85-272084	Knob, Speed Selector Switch	AB
250	SP85-272078	Plate, Cue Lever	AE
251	SP85-210146	Ring, "E" Type, ϕ3.2mm	AB
255	SP85-273399	Tonearm Assembly	BF
255-1	————	Tonearm	—
255-2	SP85-272069	Bolt, Bearing	AB
255-3	SP85-272068	Spring, Pressure	AB
255-4	SP85-272119	Screw, ϕ3 × 6mm	AB
255-5	SP85-216844	Control Nipple Stud	AB
255-6	SP85-272067	Holder, Tonearm	AE
255-7	SP85-272073	Screw, ϕ3 × 20mm	AB
255-8	SP85-273392	Bolt, Lifting	AF
255-9	SP85-272066	Spring, Pressure	AB
255-10	SP85-273394	Lever	AH
255-11	SP85-272073	Screw, ϕ3 × 20mm	AB
255-12	SP85-270534	Head Shell Assembly	AR
255-13	SP85-262759	Screw, ϕ2.5 × 8mm	AB
255-14	SP85-273167	Nut, ϕ2.5mm	AB
255-15	SP85-275118	Sleeve	AB
255-16	SP85-272077	Spring, Lever	AA
259	SP85-272125	Tonearm Rest	AB
260	SP85-273395	Cover, Tonearm	AS
261	SP85-272106	Switch, Skeleton Type	AH
262	SP85-272396	Cartridge with Stylus (DMS 239)	AY
262-1	————	Cartridge	—
262-2	SP85-273432	Replacement Stylus (DN 239)	AV
263	SP85-210469	Screw	AA
264	SP85-276225	Screw	AA
265	SP85-210287	Screw	AA
266	SP85-276226	Screw	AA
267	SP85-210148	Ring, "E" Type	AA
268	SP85-210586	Washer	AA

CABINET PARTS (RACK)

301	SYW7H-1	Side Board, Left	BB
302	SYW7H-2	Side Board, Right	BB
303	SYW7H-3	Top Board	BA
304	SYW7H-4	Blind Board	AU
305	SYW7H-5	Tween Board	AW
306	SYW7H-6	Bottom Board	AZ
307	SYW7H-7	Back Board	AS
308	SYW7H-8	Back Board, Upper	AR
309	SYW7H-9	Back Board, Bottom	AP
310	SYW7H-10	Glass Door	BA
311	SYW7H-11	Glass Cover	AX
312	SYW7H-12	Screw, ϕ6.3 × 50mm	AC
313	SYW7H-13	Cover Cap, Black	AA
314	SYW7H-14	Metal Dowel	AB
315	SYW7H-15	Eccenter	AB
316	SYW7H-16	Cover Cap, Eccenter	AA
317	SYW7H-17	Wooden Dowel, ϕ3 × 30mm	AA
318	SYW7H-18	Wooden Dowel, ϕ6 × 30mm	AA
319	SYW7H-19	Record Holder, Black	AF
320	SYW7H-20	Caster	AK
321	SYW7H-21	Screw, Caster, ϕ4 × 15mm	AA
322	SYW7H-22	Hinge, Glass Door	AK
323	SYW7H-23	Hinge, Glass Door	AK
324	SYW7H-24	Rubber, Glass Door	AC
325	SYW7H-25	Socket	AB
326	SYW7H-26	Bracket	AG
327	SYW7H-27	Screw, ϕ3 × 20mm	AA
328	SYW7H-28	Magnet, Glass Door	AM
329	SYW7H-29	Handle, Glass Door	AG
330	SYW7H-30	Hinge, Glass Cover	AQ
331	SYW7H-31	Screw, ϕ3 × 15mm	AA
332	SYW7H-32	Screw, ϕ4.5 × 25mm	AC
333	SYW7H-33	Screw, ϕ4.5 × 35mm	AC
334	SYW7H-34	Cover Cap, Black	AA
335	SYW3/5-32	Transport Protection Socket	AD
336	SYW7H-36	Screw	AB
337	SYW7H-37	Bracket	AB
338	SYW7H-38	Screw, ϕ2.9 × 9.5mm	AA
339	SYW7H-39	Screw, ϕ4 × 25mm	AA
340	SYW7H-40	Screw, ϕ3 × 15mm	AA
341	SYW7H-41	Screw, ϕ3.5 × 30mm	AB
342	SYW7H-42	Ledge	AH
343	SYW7H-43	Handle, Glass Cover	AG
344	SYW7H-44	Felt	AB
	SYW7H-0	Mounting Bag	BB

SPEAKER PARTS

	6GCAB095	Cabinet Inc. Baffle Board	BM
	6HBDG006	Badge, SHARP	AE
	6VSPA077	Speaker, Woofer	AY
	6VSPA078	Speaker, Squawker	AS
	6VSPA079	Speaker, Tweeter	AP
	6VCE-024	Electrolytic Capacitor, 1.0 μF/15 VAC (Bipolar)	AD
	6VCE-001	Electrolytic Capacitor, 2.2 μF/15 VAC (Bipolar)	AD
	6QCNW002	Connection Cable 2.5 Mtr.	AG
	6RFiL026	Cross Over Network (without Cable)	AQ

SHARP

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